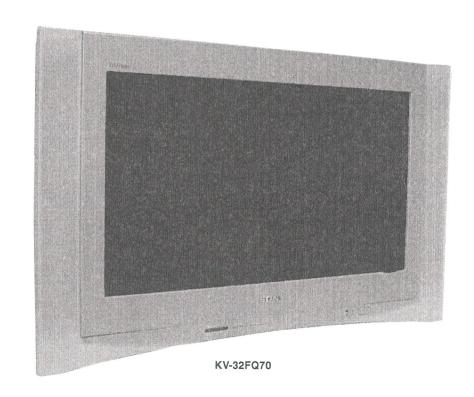


AE-6B CHASSIS

SERVICE MANUAL

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32FQ70B	RM-938	FR	SCC-Q83N-A	KV-32FQ70K	RM-938	OIRT	SCC-Q82J-A
KV-32FQ70E	RM-938	ESP	SCC-Q81Q-A	KV-32FQ70U	RM-938	UK	SCC-Q84N-A

FD Trinitron





RM-938



TABLE OF CONTENTS

Section		Title		Page	Section	Title	Page
		Caution		3	5. DIAGRAI	MS	
		Specifications		4			
		Connectors		6	5-1.	Block Diagrams (1)	 25
		Self Diagnostic Software		7		Block Diagrams (2)	 26
						Block Diagrams (3)	 27
1. GE	NERA	L				Block Diagrams (4)	 28
		Switching On the TV and			5-2.	Circuit Board Location	 28
		Automatically Tuning		8	5-3.	Schematic Diagrams and	
		Introducing and Using the Mer				Printed Wiring Boards	 28
		System		9		* A Board Schematic	 29
		Menu Guide		9		* A Board PWB	 35
		Teletext		10		*F1 Board Schematic	 39
		Fastext		10		*F1 Board PWB	 40
		Remote Control Configuration		10		* H1 Board Schematic	 39
		for VCR/DVD		11		* H1 Board PWB	 40
		Specifications		11		* VM Board Schematic	 39
		Troubleshooting		12		* VM Board PWB	 40
		Houbleshooting		12		* G Board Schematic	 41
2. DIS		MRIV				* G Board PWB	 40
2. DIS	MOSE	WIDLI				* C Board Schematic	 42
	2 1	Rear Cover Removal		13		* C Board PWB	 43
	2-1.					* M2 Board Schematic	44
	2-2.	Speaker Connector Disconnect		13			 43
	2-3.	Chassis Removal and Refitting		13		* M2 Board PWB	
	2-4.	Service Position		14		* D2 Board Schematic	 45
	2-5.	G Board Removal		14		* D2 Board PWB	 43
	2-6.	D2 Board Removal		14		* D Board Schematic	 47
	2-7.	D Board Removal		14		* D Board PWB	 46
	2-8.	M2 Board Removal		15			4.0
	2-9.	Service Connector for M2 Boa	rd	15	5-4.	Semiconductors	 48
	2-10.	Wire Dressing		15	5-5.	IC Blocks	 51
	2-11.	Picture Tube Removal		16			
		Bottom Plates		17	6. EXPLOD	EDVIEWS	
3. SE	T-UP A	ADJUSTMENTS			6-1.	Chassis	 53
					6-2.	Picture Tube	 54
	3-1.	Beam Landing		18			
	3-2.	Convergence		19	7. ELECTRI	CAL PARTS LIST	 55
	3-3.	Focus Adjustment		21			
	3-4.	Screen (G2), White Balance		21			
	5 4.	beleen (G2), with building		21			
4. CI	RCUIT	T ADJUSTMENTS					
	4-1.	Electrical Adjustments		22		ATTENTION	
	4-2.	Test Mode 2		24			

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

CAUTION

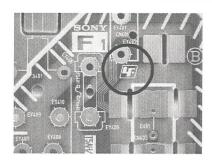
Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.

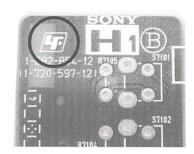


Table 1

example 1



example 2



Board	Function
С	R,G,B Out
F1	Power Switch/Fuse/SIRCS/Standby LED
H1	Front AV Input/Headphone and

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers:

Partnumber	Diameter	Remarks	
7-640-005-19	0.3mm	0.25Kg	
7-640-005-20	0.4mm	0.50Kg	
7-640-005-21	0.5mm	0.50Kg	
7-640-005-22	0.6mm	0.25Kg	
7-640-005-23	0.8mm	1.00Kg	
7-640-005-24	1.0mm	1.00Kg	
7-640-005-25	1.2mm	1.00Kg	
7-640-005-26	1.6mm	1.00Kg	

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to http://www.sony-training.com

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
В	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03, F02-F10, B-Q UHF: E21-E69, F21-F69, B21-B69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Е	B/G/H, D/K	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03 UHF: E21-E69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
К	B/G/H, D/K	GERMAN/NICAM Stereo	VHF: E2-E12, R1-R12, S01-S03 UHF: E21-E69, R21-R69 CABLE TV: S01-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
U	I	NICAM Stereo	UHF: B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

at Display FD Trinitron pprox 82 cm (32 inches) approx 76 cm picture measured agonally) AR] puts for Audio and Video signals. puts for RGB. utputs of TV Video and Audio gnals. puts for Audio and Video signals. puts for RGB.	Right and Left speaker Sub Woofer General Specifications Power Requirements Power Consumption	2x20W (Music Power) 2x10W (RMS) 1x30W (Music Power) 1x15W (RMS) 220 - 240V	
puts for Audio and Video signals. puts for RGB. utputs of TV Video and Audio gnals. puts for Audio and Video signals. puts for RGB.	Power Requirements	220 - 240V	
puts for RGB. utputs of TV Video and Audio gnals. puts for Audio and Video signals. puts for RGB.			
puts for Audio and Video signals. puts for RGB.	Power Consumption	130W	
puts for RGB.		13000	
utputs of TV Video and Audio signals. Monitor Out)	Dimensions	Approx 910x586x586mm	
,	Weight	Approx 64kg	
puts for Audio and Video signals. puts for S Video. utputs of TV Video and Audio signals. electable)	Supplied Accessories	RM-938 Remote Commander (1) IEC designated R6 battery (2)	
utput Connectors variable for Audio gnals	Other Features	100 Hz picture, DNR, Auto Noise Reduction, Teletext, Smartlink, BBE, Virtual Dolby	
E]	Remote Control Syster	n : Infrared Control	
ereo mini jack			
nono jacks	Power requirements	3V dc 2 batteries IEC designation	
nono jacks		R6 (size AA)	
pin DIN			
	outs for S Video. Itputs of TV Video and Audio signals. Itputs of TV Video and Audio signals. Itput Connectors variable for Audio Instruction of Audio Itput Connectors variable for Audio Itput Connectors variab	Substance of the formula of the form	

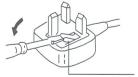
Model Name Item	KV-32FQ70B	KV-32FQ70E	KV-32FQ70K	KV-32FQ70U
Pal Comb	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON
Woofer Box	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Scart 3	ON	ON	ON	ON
Side in (4)	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF
Norm B/G	ON	ON	ON	OFF
Norm I	ON	OFF	OFF	ON
Norm D/K	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF
Norm L	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON
Nicam Stereo	ON	ON	ON	ON

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the mark.

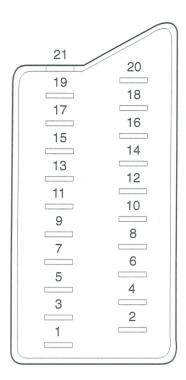
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

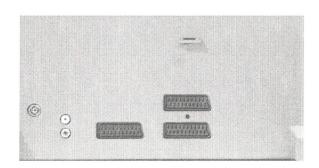


1	Pin No	1	2	3	Signal	Signal level
2	1	0	0	0		
3	2	0	0	0		
5	3	0	0	0		
Standard level : 0.5V rms Output impedence : More than 10kohm* 7	4	0	0	0	Ground (audio)	
O O (left) Output impedence : More than 10kohm* O O Blue input O O O High State (9.5-12V) : Part mode Low state (9.5-12V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF Green input impedence : Less than 2nF Green signal : 0.7 +/- 3dB, 75 ohms, positive O O Open Ground (green) O Open Ground (red) Ground (blanking) O	5	0	0	0	Ground (blue)	
Balanking input (Ys signal) High state (1-3V) Low state (0-0.4V)	6	0	0	0		
S	7	0		•	Blue input	0.7 +/- 3dB, 75 ohms positive
10 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	8	0	0	0		Low state (0-2V): TV mode Input impedence: More than 10K ohms
11	9	0	0	0	Ground (green)	
12	10	0	0	0	Open	
13	11	0	•	•	Green	
14	12	0	0	0	Open	
15	13	0	0	0	Ground (red)	
15	14	0	0	0	Ground (blanking)	
16		0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
17	15	-	0	0		0.3 +/- 3dB, 75 ohms, positive
18	16	0	•	•		
19 O O linput) 19 O O Video output 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB) 0 - Video input 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB) - O Video input 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB) 10 O O Common ground	17	0	0	0		
20	18	0	0	0		
20 (-3+10dB) - O Video input Y (S signal) 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)	19	0	0	0	Video output	
- O Video input Y (S signal) 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)		0	-	-	Video input	
	20	-	0	0		
	21	0	0	0		

Connected

Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel



S-Video socket

	S Video socket pii	n configuration
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.

AE-6B SELF DIAGNOSTIC SOFTWARE

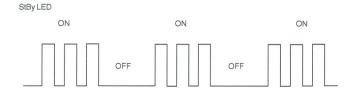
The identification of errors within the AE-6B chassis is triggered in one of two ways: - 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method.

Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example: e.g. error number 3



How to enter into Table 2

- 1. Turn on the main power switch of the TV set.
- Program Remote Commander for Operation in Service Mode. [See Page 22].
- 3. Press 'VIDEO' 'VIDEO' > 'MENU' on the Remote Commander.
- Using the Remote Commander, Scroll to the 'Error Menu' item using the down arrow key, then press the right arrow key.
- The following table will be displayed indicating the error count.

Table 2

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15 E16	OCP OVP VSYNC IKR IIC NVM HPROT TUNER SOUNDP - SCANRATE DAC BACKEND DYN CON PIP	(0, 255) (0, 255)	0 0 0 0 0 0 0 0 0 0
WORKING TIME HOURS MINUTES			14 7

Note: To clear the error count data press '80' on the Remote commander.

Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain The operating instructions mentioned here are partial abstracts from the 'Operating as in the manual.

Switching On the TV and Automatically Tuning

However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the (a) (Set Up menu) or by pressing the Auto Start Up Button [N] on the TV set. 3) search and store all available channels (TV Broadcast) and 4) change the order in which enabling you to: 1) choose the language of the menu screen, 2) adjust the picture slant, The first time you switch on your TV, a sequence of menu screens appear on the TV and binding you be at a second of the TV. the channels (TV Broadcast) appear on the screen.

Connect the TV plug to the mains socket (220-240V AC,

turned on. If the TV is off, press the **O** on/off button on The first time that the TV set is connected, it is usually the TV set to turn on the TV.

The first time you switch on the TV, a Language menu displays automatically on the TV screen.





3 Because of the earth's magnetism, the picture might slant. The Picture Rotation menu allows you to correct the picture slant if it is necessary.

- a) If it is not necessary, press OK to select Not necessary.
 - b) If it is necessary, press \spadesuit or \spadesuit to select Adjust now, between –5 and +5 by pressing \clubsuit or \clubsuit . Finally press then press OK and correct any slant of the picture OK to store.

g_B



 $\boldsymbol{4}$ The Auto Tuning menu appears on the screen. Press the OK button to select Yes.



Do you want to start automatic tuning?

5 The TV starts to automatically search and store all available broadcast channels for you.

C 0.1

Programme: Channel:

- This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.
- the TV Broadcaster sends a menu in which you can select your city by pressing the • or • button and channels automatically (ACI system). In this case, In some countries the TV Broadcaster installs the OK to store the channels.
- process then a new menu appears automatically on If no channels were found during the auto tuning the screen asking you to connect the aerial. Please connect the aerial (see page 6) and press OK. The auto tuning process will start again.

......

No channel found Please connect aerial Confirm

> the Programme Sorting menu automatically appears After all available channels are captured and stored, on the screen enabling you to change the order in which the channels appear on the screen.

- If you wish to keep the broadcast channels in the tuned order, go to step 7. (e
- 1 Press the \blacksquare or \blacksquare button to select the programme number with the channel (TV Broadcast) you wish If you wish to store the channels in a different order: to rearrange, then press the • button. 9
 - programme number position for your selected 2 Press the \spadesuit or \spadesuit button to select the new channel (TV Broadcast), then press OK.

Select Channel AV Confirm: ▶

Programme: 01 TVE2 03 ANT3 04 TELE5 05 C4 06 C44

3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.



88888

MENU Car

 ${f 7}$ Press the MENU button to remove the menu from the

Your TV is now ready for use

continued..

2 Press the \clubsuit or \spadesuit button on the remote control to select

the language, then press the OK button to confirm your selection. From now on all the menus will appear in the

selected language

Introducing and Using the Menu System

Level 3 / Function

Level 2

Level 1

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 Press the MENU button to switch the first level menu on.



2 • To highlight the desired menu or option, press ◆ or ◆.

To enter the selected menu or option, press

To return to the last menu or option, press

To alter the settings of your selected option, press ♥/♠/♠ or ♠.

• To confirm and store your selection, press OK.

3 Press the MENU button to remove the menu from the screen.

48 18

GB

MENU

Level 2 Level 1

Menu Guide

Level 3 / Function

PICTURE ADJUSTMENTThe "Picture Adjustment" menu allows you to alter the picture adjustments. To do this: after selecting the item you want to repeatedly to adjust it and finally press OK to alter press \clubsuit , then press $\blacktriangledown/\spadesuit/\spadesuit$ or \spadesuit store the new adjustment.

Sweet AV Date: P

Select AV Enter Menu IN

4

-

This menu also allows you to customise the picture mode based on the programme you are watching: Picture Mode → ← Live (for live broadcast programmes, DVD and Digital Set Top Box receivers).

◆ Personal (for individual settings).

Brightness, Colour and Sharpness can only be altered if "Personal" mode is selected.

Select Reset and press OK to reset the picture to the factory preset levels.

Hue is only available for NTSC colour signal (e.g. USA video tapes).

• The Noise Reduction option is set to AUTO to automatically reduce the picture noise visible in the broadcast signal. To cancel this function, select "Off" instead of "AUTO"

continued..

Percentification of the control of t			SOUND ADJUSTMENT The "Sound Adjustment" menu allows you to alter the sound adjustments.
State AV Erter Mens P	4 7us		To do this: after selecting the item you want to after, press
Control of the contro	4 7 July 2	A ANALON METANOS OF THE PROPERTY OF THE PROPER	
Effect	4	♦ Natural:	Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*.
		◆ Dynamic	"BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism.
		♦ Dolby**	◆ Dolby**V: Dolby Virtual, simulates the sound effect of "Dolby Surround Pro Logic".
		• Off:	Flat response.
Treble	•	ress	♦ More
Bass	4	ress	◆ More
Balance	•	reft 💠	◆ Right
Reset	Š	Resets the sour	Resets the sound to the factory preset levels.
Dual Sound	4	 For a stree broadcast: Mono. Stereo. For a bilingual broadcast: Mono (for mono ch A (for channel 1). B (for channel 2). 	or a stereo broadcast: ◆ Mono. ◆ Stereo. ◆ a bilingual broadcast: ◆ Mono (for mono channel if available). ◆ A (for channel 1). ◆ B (for channel 2).
Auto Volume	4	♦ Off: volun ♦ On: volun the br	 ◆ Off: volume level changes according to the broadcast signal. ◆ On: volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of advertisements).
TV Speakers	4	♦ On: to liste ♦ Off: to liste	• On: to listen to the TV from the set speakers. • Off: to listen to the TV from an external amplifier connected to the

If you are listening to the TV through headphones, the "Effect" option will automatically be sovitched to "Off".

audio outputs on the rear of the TV set.

• If you select "Dolby Virtual" on the "Effect" option, the "Auto Volume" option will automatically be switched to "Off" and vice versa.

* The "BBE High Definition Sound system" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and BBE Symbol are trademarks of BBE Sound, Inc.

** This TV has been designed to create the "Dolby Surround" sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to "Connecting to external audio Equipment" on page 21).

** Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symból Da are trademarks óf Dolby Laboratories. continued.

The "Manual Programme Preset" option in the "Set Up" menu allows you to: one to the programme order of your choice. a) Preset channels or the VCR channel one by Press • or • to select which programme number you want to preset the channel on (for VCR, select programme number "0"). After selecting the "Manual Programme Programme option highlighted press Preset" option, press 🔷 then with MANUAL PROGRAMME PRESET Level 3 / Function To do this: efect: AV Enter. ▶ Level 2 Œ Select: AV Enter Menu: IN • Level 1

directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press 🔷 or 春 to search for it. When you have tuned 2 After selecting the Channel option, press . Then press the number buttons to enter Then press 🔷 the desired channel, press OK twice to store.

Repeat all the above steps to tune and store more channels.

b) Label a channel using up to five characters.

programme number with the channel you wish to name. When the programme you want to name appears on the screen, select the **Label** option and press . Next press . To or select a letter, number or "-" for a blank. Press . To confirm this character. Select the other four characters in the same way. After selecting all the characters, press OK twice to store. To do this: Highlighting the Programme option, press the PROG +/- button to select the

best possible picture, however you can manually fine tune the TV to obtain a better picture Fine tune the broadcast reception. Normally the automatic fine tuning (AFT) will give the reception in case the picture is distorted. Û

To do this: while watching the channel (TV Broadcast) you wish to fine tune, select the AFT option and press . Next press . or . to adjust the fine tuning between -15 and +15. Finally press OK twice to store.

Skip any unwanted programme numbers when they are selected with the PROG +/- buttons. 6

To do this: Highlighting the Programme option, press the PROG +/- button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the Skip option and press \clubsuit . Next press \blacktriangledown or \spadesuit to select Yes. Finally press OK twice to confirm and store.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

GB

Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

 $\begin{tabular}{lll} \hline & Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal. \\ \hline \end{tabular}$

To switch on Teletext:

After selecting the TV channel which carries the teletext service you wish to view, press 🚍

TELETEXT

To select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you make a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number

To access the next or preceding page:

Press PROG + () or PROG - (

To superimpose teletext on to the TV:

Whilst you are viewing teletext, press <a> Press it again to cancel teletext mode.

To freeze a teletext page:

Press • / F. Press it again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz):

Press (14) (2). Press it again to conceal the information.

To select a sub page:

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner will change from white to green and one or more arrows will appear next to the page number. Repeatedly press the 🔷 or 🄷 buttons on the remote control to watch the desired sub page.

To Switch Off Teletext:

Press O

Fastext

continued.

Fastext service lets you access Teletext pages with one button push.

When you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.

Auto Format.ACI (Auto Channel Installation).

Remote Control Configuration for VCR/DVD

In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), please complete the following steps:

Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.

Press the Media Selector button on the remote control repeatedly until the required green light (VCR or DVD) is lit. If Media Selector is on TV position, code numbers will not be stored.

Whilst the green light is flashing, enter all three digits of the code for your brand of VCR or DVD using the number buttons on the remote control. Before the green light goes out, press and hold the yellow button for approximately 6 seconds until the green light starts flashing. 2 m

If your selected code is entered correctly, all three green lights will be lit momentarily momentarily.

4 Turn on your VCR or DVD and check that the main functions work.

 If your device is not working or some of the functions do not work
 please check that you entered the correct code set or try the next code listed against the brand.

 Your brand codes may be lost if weak batteries are not replaced within
a few minutes. To reset your brand of DVD or VCR please repeat the
above steps. A small label is added inside the battery door to allow you to record your brand codes.

- 11 -

B. 1.1.1.1.1

Not all brands are covered and not all models of every brand may be

List	
VCR Brand	

DVD Brand List	Code	001	021	018, 027, 020, 002	009, 028, 023, 024, 016, 003	025, 026, 015, 004	006, 017		015, 014	009, 028, 023, 024, 016, 003	013, 016	022			004		200	019, 027	1 012	003	018, 027, 020, 002		
DVD Br	Brand	SONY	AIWA	DENON	GRUNDIG	HITACHI	IVC	KENWOOD	DT	LOEWE	MATSUI	ONKYO	PANASONIC	PHILIPS	PIONEER	SAMSUNG	SANYO	SHARP	THOMSON	TOSHIBA	YAMAHA		
List	Code	301, 302, 303, 308, 309	303, 307, 310	304, 305, 306	325, 331, 351	326, 329, 330	342, 343	358, 355, 360, 361, 320, 351	327, 333, 334	314, 315, 322, 344, 352, 353,	354, 348, 349	332, 338	358, 355, 360, 361, 320, 351	356, 357	328	321, 323	311, 312, 313, 316, 317, 318,	358, 359	339, 340, 341, 345	335, 336	324	319, 350	337
VCR Brand List	Brand	SONY (VHS)	SONY (BETA)	SONY (DV)	AIWA	AKAI	DAEWOO	GRUNDIG	HITACHI	JVC		TC	LOEWE	MATSUI	ORION	PANASONIC	PHILIPS		SAMSUNG	SANYO	SHARP	THOMSON	TOSHIBA

Specifications

Front Terminals Accessories supplied: -® 4 S Video input - 4 pin 1 Remote Control (RM-938)	2 Batteries (IEC designated, put – phono AA size)	Other features: out - phono • 100 Hz picture, Digital Plus.	
Front Terminals	DIN O 4 video input – phono	jack O 4 audio ir	jacks
TV system:	Colour system: PAL	SECAM, NTSC 3.58, 4.43 (only Otto Input - phono Video In)	Channel Coverage:

jacks headphones jack Sound Output:

 $2 \times 20 \text{ W}$ (music power) $2 \times 10 \text{ W}$ (RMS) 30 W (music power) 15 W (RMS) 71 cm mesaured diagonally). KV-28FQ70U: 28" (approx. WV-32FQ70U: 32" (approx.

Flat Display FD Trinitron

Channel Coverage:

-0 20

I: UHF B21-B69 Picture Tube: between your TV set and a compatible VCR. For more

SmartLink (direct link

Sleep Timer.

(250 page TEXT memory).

Instruction Manual of your

Dolby Virtual.

VCR).

BBE Digital.

please refer to the

information on SmartLink,

 KV-32FQ70U: 130 W Power Consumption: KV-28FQ70U: 125 W Standby Power Consumption: 82 cm mesaured diagonally). **⊕**1/**⊕**1 21-pin scart

Rear Terminals

Dimensions (w x h x d): KV-32FQ70U: approx. KV-28FQ70U: approx. 789 x 533 x 521 mm. 0.3 W including audio/video input, RGB input, TV (CENELEC standard) audio/video output.

 $910 \times 586 \times 586 \text{ mm}$. KV-28FQ70U: Weight: including audio / video input, RGB input, monitor **№2/ —** 2 21-pin Scart connector (CENELEC standard) audio/video output.

 KV-32FQ70U: audio / video input, S video input, selectable audio / video output and (CENELEC standard) including Smartlink interface.

approx. 46.5 Kg.

3/ €3 21-pin Scart

(SMARTLINK)

approx. 64 Kg.

G- audio outputs (Left/ Right) - phono jacks

Design and specifications are subject to change without notice. Ecological Paper - Totally Chlorine Free

Troubleshooting

 \bigoplus Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	 Check the aerial connection. Plug the TV in and press the
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 9).
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press the • Dutton repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 21).
Good picture, no sound.	Press the ∠I + button on the remote control. Check that 'TV Speakers'' is "On" in the "Sound Adjustment" menu (see page 10). Check that headphones are not connected.
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 9).
When you switch on the TV the last channel you were watching before switching the TV off does not appear.	• This is not a malfunction. Press the number buttons on the remote control to select the desired channel.
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing NexTView.	• Use the menu system to enter the "Language" menu (see page 13) and select the same language that NexTView is broadcast in.

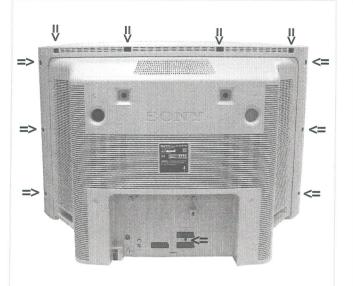
continued...

Problem	Solution
Picture slanted	\bullet Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant (see page 16).
Noisy picture when viewing a TV channel.	Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 15). Using the menu system, select the "Noise Reduction" option in the "Picture Adjustment" menu and select "Auto" to reduce the noise in the picture (see page 19).
Remote control does not function.	• Check that the Media Selector on the remote control is set to the device you are using (VCR, TV or DVD). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained in the "Remote Control Configuration for VCR/DVD" chapter of this instruction nanual (see page 22). • Replace the batteries.
The standby indicator $\boldsymbol{\phi}$ on the TV flashes.	Contact your nearest Sony service centre.

If you continue to experience problems, have your TV serviced by qualified personnel. Never open the casing yourself.

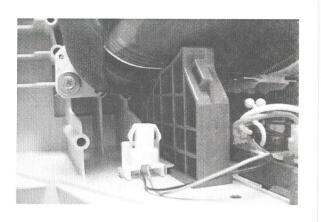
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



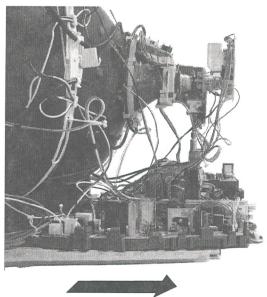
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set.

2-2. Speaker Connector Disconnection

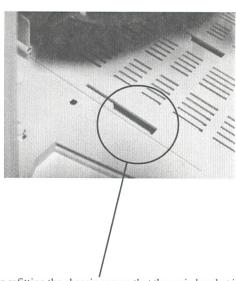


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the set.

2-3. Chassis Removal and Refitting



To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.

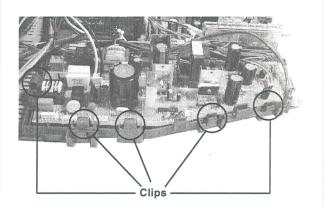


When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

2-4. Service Position

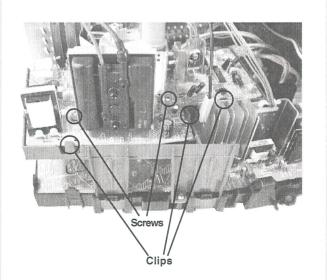
To place the chassis in the service position, insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 17. [Removal and Replacement of the main bracket bottom plates].

2-5. G Board Removal



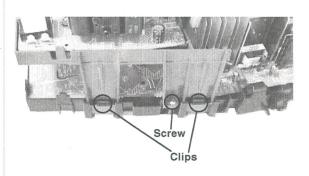
To remove the G Board release the clips circled and ease the board gently away from the support bracket.

2-6. D2 Board Removal



To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

2-7. D Board Removal



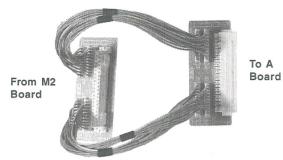
To remove the D board first remove the D2 bracket by removing the two screws (one on each side of the bracket) and releasing the four clips (two on each side of the bracket). The D board can then be removed using the same method as the G board.

2-8. M2 Board Removal



To remove the M2 Board gently release the two clips with a screwdriver and remove the board from its socket vertically.

2-9. Service Connector for M2 Board

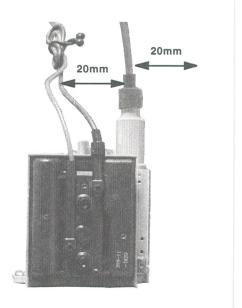


Extender Board Assembly A-1642-293-A

If the M2 Board needs to be removed for testing when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated above.

The Extender board and extension cable are available as a service part by ordering the part number as indicated.

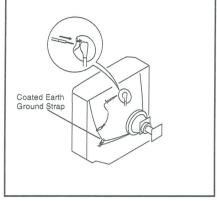
2-10. Wire Dressing

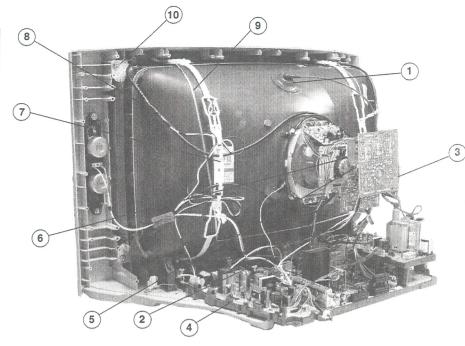


Ensure that wires do not touch heatsinks and high temperature hotspots. All wires must be kept at a minimum distance of 20mm away from the EHT lead

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock. discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

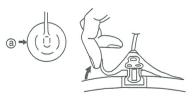




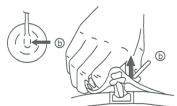
- 1. Discharge the anode of the CRT and remove the anode cap.
- Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
- 3. Remove the C Board from the CRT.
- 4. Remove the chassis assembly.
- 5. Loosen the Neck assembly fixing screw and remove.
- 6. Loosen the Deflection yoke fixing screw and remove.
- 7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
- 8. Remove the Degaussing Coils.
- 9. Remove the CRT grounding strap and spring tensioners.
- 10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT. [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

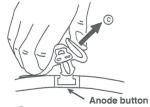
REMOVAL PROCEDURE.



(1) Turn up one side of the rubber cap in the direction indicated by the arrow (a)



2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

How to handle the Anode-Cap

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note: There are 2 plates fitted to the main bracket. Only remove the necessary plate to gain access to the printed wiring board.

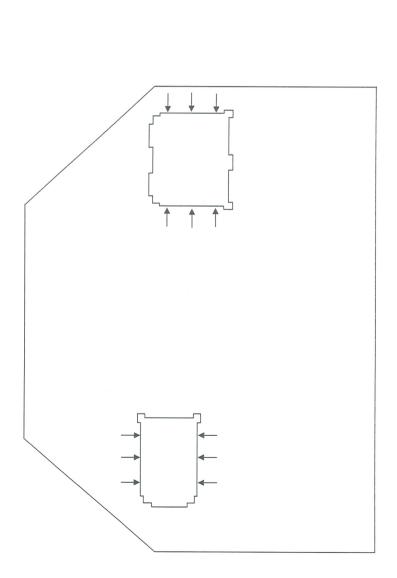
For safety reasons, on no account should the plates be removed and not refitted after servicing.

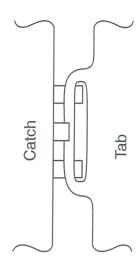
 \triangleleft

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.





SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast	 normal
Brightness	 normal

Carry out the adjustments in the following order:

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note: Test equipment required.

- 1. Color bar/pattern generator.
- Degausser.
- Oscilloscope.
- 4. Digital multimeter.

3-1. Beam Landing

Preparation:

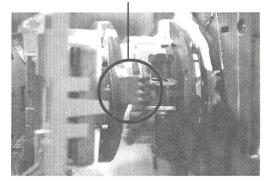
- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

- 1. Input a crosshatch signal from the pattern generator.
- 2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- 3. Position the neck assembly as indicated in Fig.3-2.
- 4. Loosen the deflection yoke fixing screw.
- 5. Move the deflection yoke as far forward as is possible.
- Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
- Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

Y-splitting axis correction magnet



Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated [See Fig. 3-4].

- 1. Input a crosshatch signal from the signal generator.
- 2. Rough-adjust the focus and horizontal convergence.
- 3. Switch from the crosshatch pattern to an all-red pattern.
- Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
- 5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
- Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
- 7. Position the deflection yoke between the two marks indicated
- Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
- 9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
- Switch the pattern generator to green then blue and confirm the purity.
- 11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing forgreen and blue]

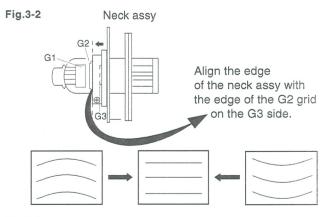
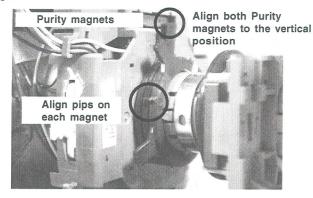


Fig.3-3

Fig.3-4



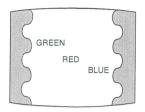
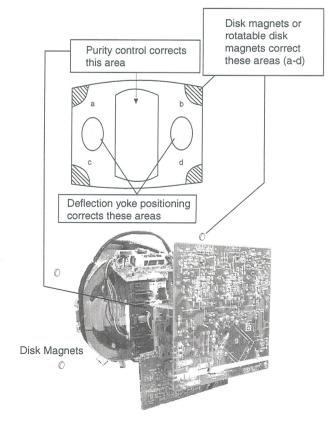
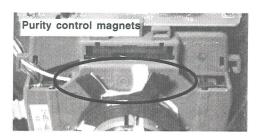


Fig.3-5

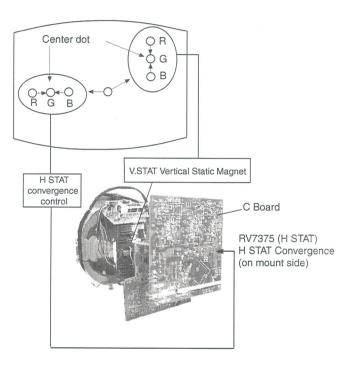




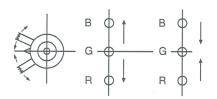
3-2. Convergence

(1) Screen centre convergence [Static convergence]

- 1. Input a dot pattern signal from the pattern generator.
- 2. Normalize the picture setting.
- [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

- Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

HMC correction(A)

A < B R G B

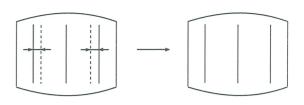
O O O

A > B R G E

O O O

b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



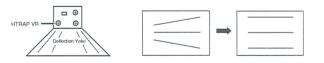
YCH Adjustment



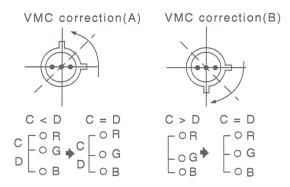
TLV Adjustment



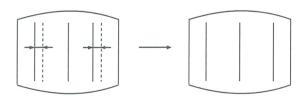
H-TRAP Adjustment



The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

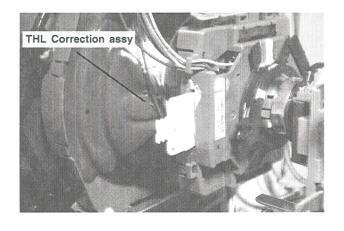


HAMP Adjustment

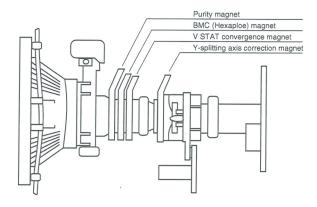


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

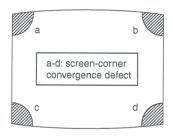
HTIL Adjustment

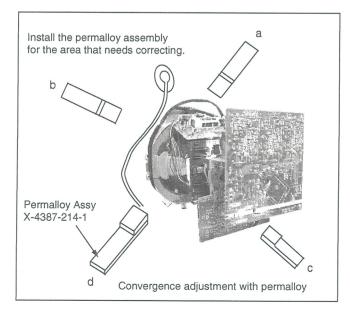


Layout of each control



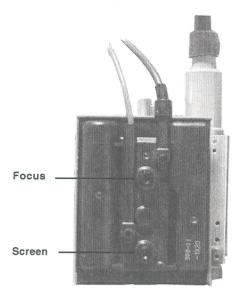
Note: If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.





3-3. Focus Adjustment

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
 Bring only the centre area of the screen into focus, the magentaring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- 3. Apply 165V DC from an external power supply to the R, G and B cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control [SCREN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- Program the Remote Commander for operation in Service Mode. [See Page 22].
- 3. Enter into the 'Service Mode' by pressing 'VIDEO' button twice and 'MENU' on the Service Commander.
- Select 'Service' from the on screen menu display and press 'Right Arrow'.
- 5. The 'Service' menu will appear on the screen. [See Page 23]
- 6. Set the 'Contrast' to MAX.
- 7. Set the 'R-Drive' to 50.
- Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 9. Press the 'OK' button to write the data for each item.
- 10. Set the 'Contrast' to MIN.
- 11. Set the 'R-Cutoff' to 29.
- Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 13. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-938.

Programming the Remote Commander for Operation in Service Mode

- 1. Press the VCR/TV/DVD button until the TV LED lights.
- Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.



- Press 99999. All three LED's should light.
 The remote commander is now set to Service Mode.
- To return the remote commander to normal operation mode repeat steps 1. and 2. then press 00000. All three LED's should light.

The remote commander is now set to normal mode.

Setting the TV into Service Mode

- Program the remote commander for operation in Service Mode as described above.
- 2. Turn on the TV main power switch.
- Press the video standby button on the remote commander twice.
 'TT__' will appear in the upper right corner of the screen.
 Other status information will also be displayed.
- Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry
Panorama
Service
Scanrate
DAC
PiP
Sound
IF adjust
Error Menu

AE6B Wide v2.21 (Jan 2002)
Factory data 02h 16h
MSP Device : MSP3411G

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 6. Press the right arrow button to enter into the required menu item.
- 7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note:

After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

GEOMETRY		
ABL TH ABL MODE P ABL V SIZE V POSITION V COMP V LIN S CORRECTION H SIZE PIN AMP UP CORNERPIN M PIN LO CORNERPIN TRAPEZIUM H POSITION AFC BOW AFC ANGLE LEFT BLK RIGHT BLK V ASPECT AKBTIM1 AKBTIM2 IKR HNG VNG	(0, 3) (0, 3) (0, 15) (0, 63) (0, 63) (0, 15) (0, 63) (0, 63)	0 0 15 35 33 1 7 7 44 32 29 2 29 2 40 8 9 34 17 47 2 0

PANORAMA		
HORWIDTH H HORWIDTH L HORPOS H HORPOS L NAPPLIP L HSCPOSC H HSCPOSC L BLANDEL BLANLEN BLANPOL HSEG1 H HSEG2 H HSEG2 H HSEG3 H HSEG3 L HSEG4 H HSEG4 L HINCO H HINCO L HINC1 L HINC1 L HINC2 L HINC2 L HINC3 H HINC3 L HINC3 L HINC3 L HINC4 H HINC4 L	(0, 7) (0, 255) (0, 7) (0, 255) (0, 7) (0, 127) (0, 15) (0, 255) (0, 255) (0, 255) (0, 255) (0, 7) (0, 255) (0, 7) (0, 255) (0, 7) (0, 255) (0, 1) (0, 255)	1 170 0 15 1 62 8 151 13 207 0 0 96 0 192 0 224 1 64 0 40 0 20 0 1 236 1 216

IF ADJUST	
Automute	1
Audio Gain	0
L Gating	0

SERVICE		
SUB COL SUB HUE SUB SHARP SUB BRIGHT SUB CONT R-DRIVE G-DRIVE B-DRIVE R CUTOFF G CUTOFF B CUTOFF Br TXT	(0, 63) (0, 15) (0, 15)	Adj 31 30 13 12 50 Adj Adj 28 24 46 7

DAC			
CONFIG MPIN CONT HLIN HTRAP ROT. COIL PHOCUS PH	(0, 255) (0, 255) (0, 255) (0, 255) (0, 255)	00000000	96 83 127 130 90

	SOUND			
	M-N	(0, 511)		200
	M-D	(-128, -1)		-20
	M-S	(+0, +127)		+20
	S-M	(+0, +127)		+10
	D-M	(-128, -1)		-10
	N-M	, ,		
		(0, 1023)		496
	BBE	(+0, +68)		+28
	B1	(-96, +96)		+0
	B2	(-96, +96)		+0
	B3	(-96, +96)		+0
	B4	(-96, +96)		+0
	B5	(-96, +96)		+0
	SW L	(-128, +0)		+0
	SW F	(+5, +40)		+30
	NICAM C AD	(.0,0)	10001	100
	NICAM Error	(0, 2047)	10001	0
	Stereo	, ,		•
١	Stereo	(-128, +127)		+0
ı	01-1			
ı	Status	00000	000110	

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15 E16	OCP OVP VSYNC IKR IIC NVM HPROT TUNER SOUNDP - SCANRATE DAC BACKEND DYN CON PIP	(0, 255) (0, 255)	0 0 0 0 0 0 0 0 0 0
WORKING TIME HOURS MINUTES			14 7

Sub Brightness Adjustment

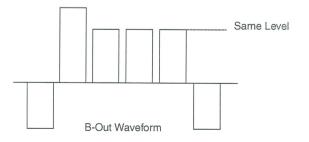
- 1. Input a Monoscope pattern.
- Program the Remote Commander for operation in Service Mode.
 [See Page 22].
- 3. Press 'VIDEO' 'VIDEO' 13 on the Remote Commander.
- 4. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

- Input a video signal that contains a small 100% white area on a black background.
- 2. Connect an digital voltmeter to Pin 10 of J7376 [C Board].
- 3. Program the Remote Commander for operation in Service Mode. [See Page 22].
- 4. Adjust the Sub-Contrast [Using 'VIDEO' 'VIDEO' '11'] to obtain a voltage of 105 +/- 5V.

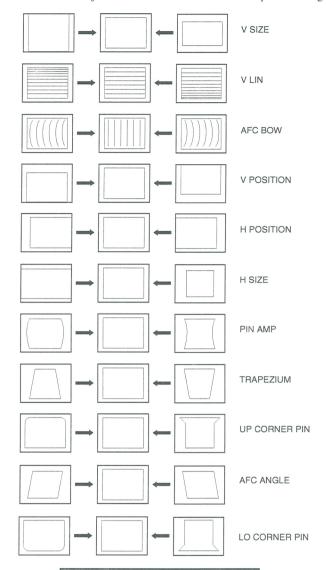
Sub Colour Adjustment

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 6 of CN7001 [A Board].
- 3. Program the Remote Commander for operation in Service Mode. [See Page 22].
- 4. Adjust the 'Sub Colour' [Using 'VIDEO' 'VIDEO' '12'] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Deflection System Adjustment

- 1. Program the Remote Commander for operation in Service Mode. [See Page 22] and enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.

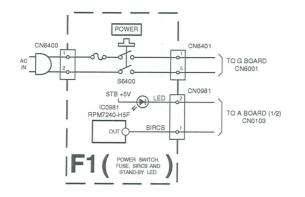


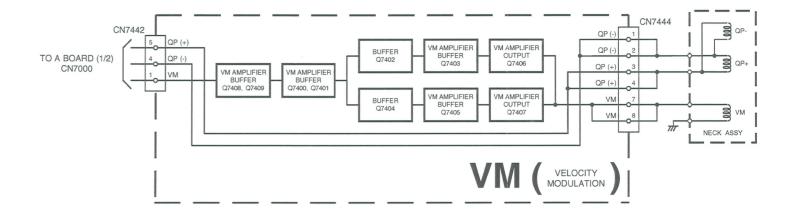
GEOMETRY		
V COMP V LIN S CORRECTION H SIZE PIN AMP UP CORNERPIN M PIN LO CORNERPIN TRAPEZIUM	(0, 3) (0, 3) (0, 63) (0, 63) (0, 63) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 63) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 63)	0 0 15 35 33 1 7 7 44 32 29 2 29 2 40 8 9 34 17 47 2 0

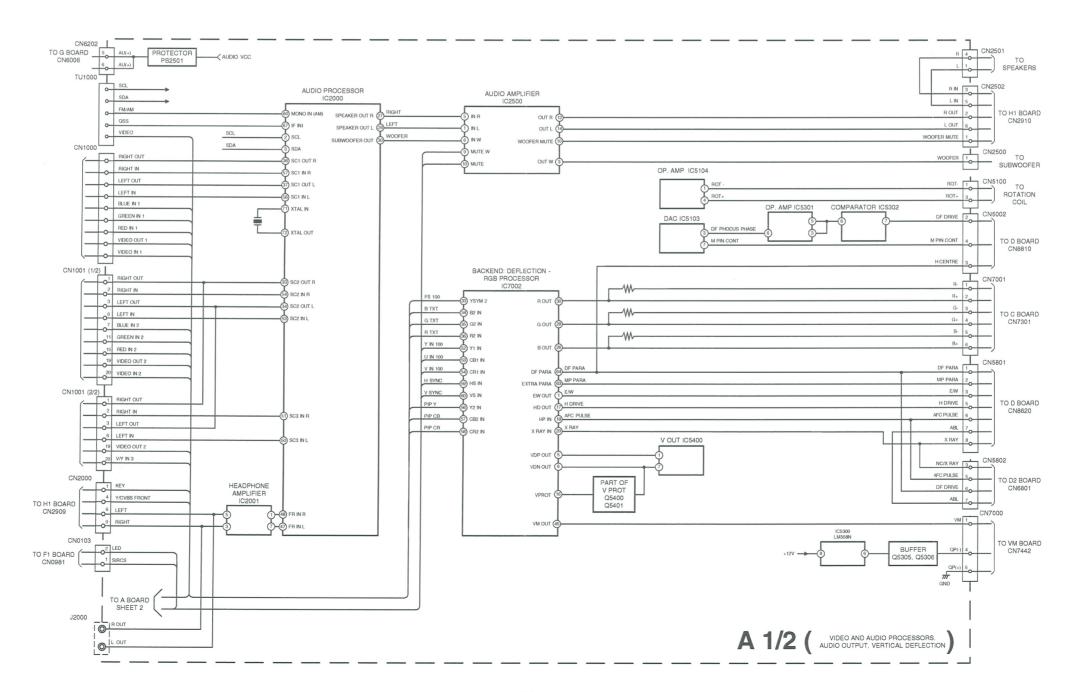
4-2.TEST MODE 2:

Test Mode 2 is available by rogramming the Remote Commander for operation in Service Mode [As shown on Page 22] then pressing the 'VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... or switch the TV set into Stand-by mode.

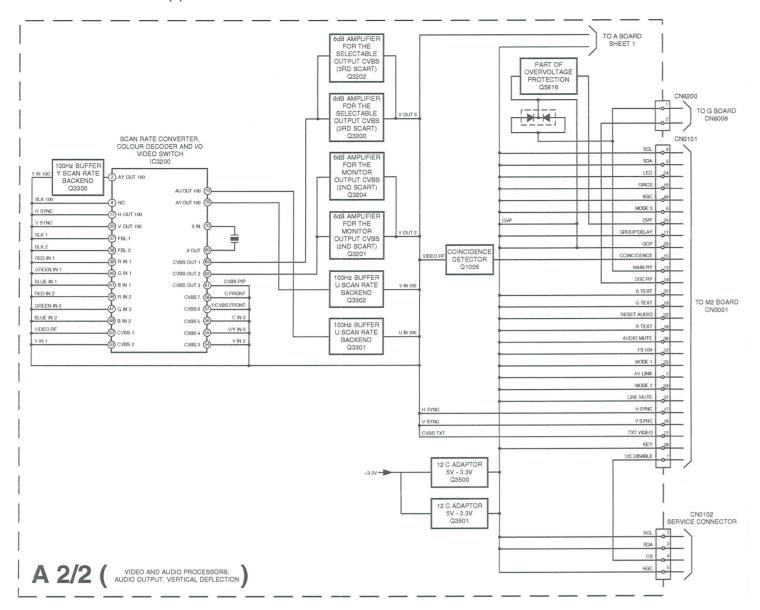
00	'TT' mode off		
01	Picture maximum		
02	Picture minimum		
03	Set speaker/headphone Volume to 35%		
04	Set speaker/headphone Volume to 50%		
05	Set speaker/headphone Volume to 65%		
06	Set speaker/headphone Volume to 80%		
07	Ageing mode		
08	Shipping Condition		
11	Sub picture adjustment		
12	Sub colour adjustment		
13	Sub Brightness adjustment		
14	Text H Position adjustment		
15	Rotation Coil Test		
16	Picture level 50%		
19	Factory Mode Enable/Disable		
21	Destination ADEKR		
22	Destination BL		
23	Destination ADEKR		
24	Destination U		
25	Destination ADEKR		
26	Destination BL		
27	Destination ADEKR		
28	Destination ADEKR		
31	Auto Shutoff Enable/Disable		
36	Velocity Modulation (VM) OFF/ON test		
41	Re-initialise NVM		
43	Select Dual A sound		
44	Select Dual B sound		
45	Select Mono sound		
46	Select Stereo sound		
48	Set NVM as non virgin		
49	Set NVM as virgin		
53	FM Overmodulation Enable/Disable		
55	Tuner selection (SONY/ALPS)		
59	Select Model 3 Scarts + PIP or 2 Scarts		
68	Enable/Disable X26 countermeasure (N problem)		
73	Enable Zweiton D/K2 system (6.5/6.74)		
74	Enable Zweiton D/K3 system (6.5/5.74)		
78	Balance full right		
79	Balance full left		
87	Local keys test		
99	Display Error and Working Time menu		

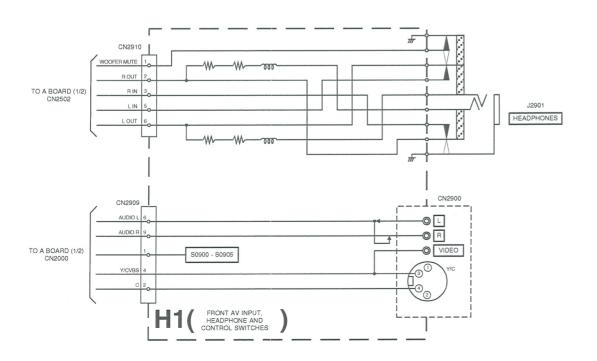


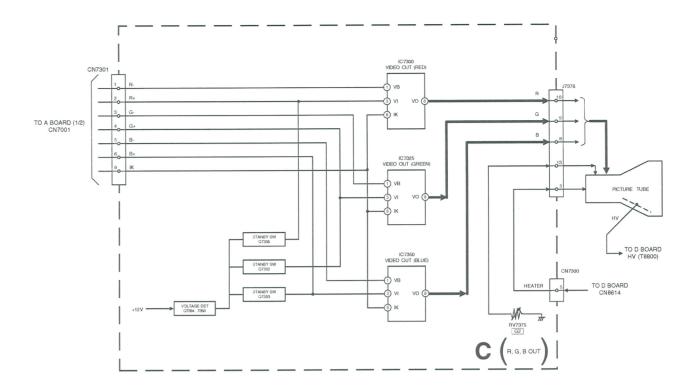


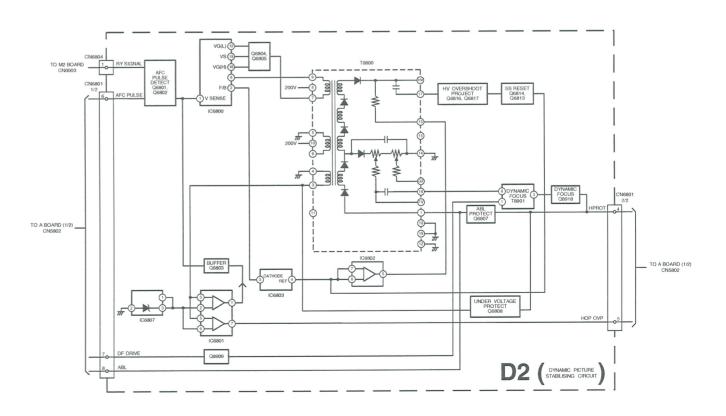


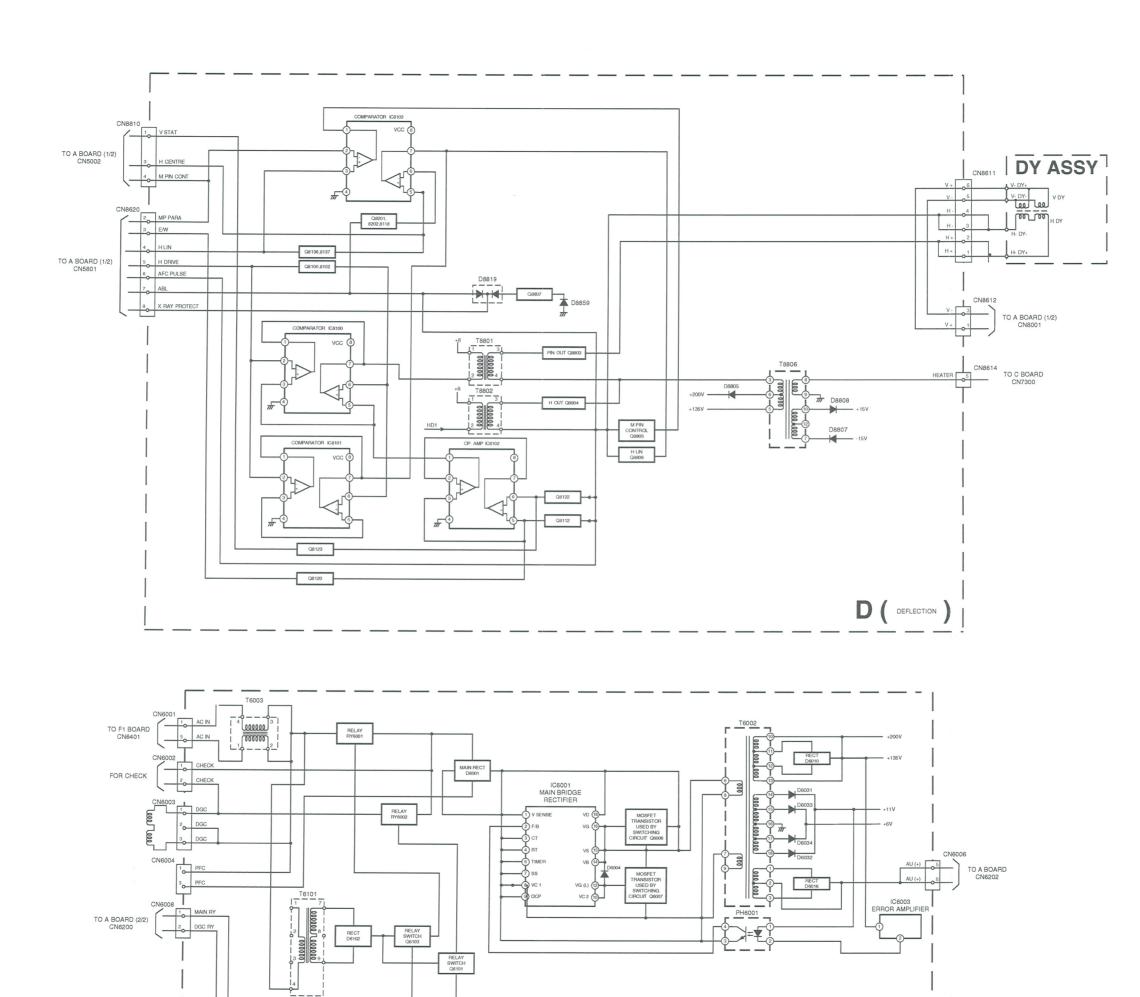
5-1. BLOCK DIAGRAMS (2)





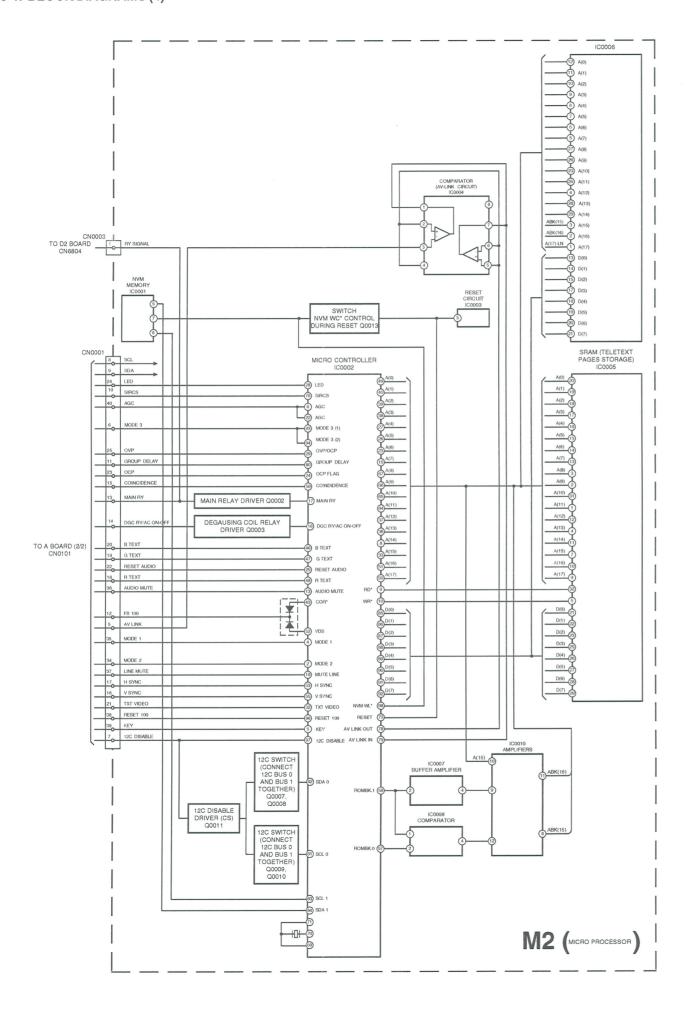




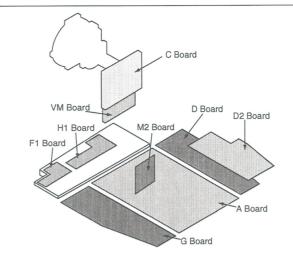


G (POWER SUPPLY)

5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted.
- pF: μμF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
 k = 1000 ohms, M = 1000,000 ohms

• : nonflammable resistor.

• : fusible resistor.

: internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

: B + bus.

• = = : B - bus.

: RF signal path.

· __ : earth - ground.

: earth - chassis.

Reference Information

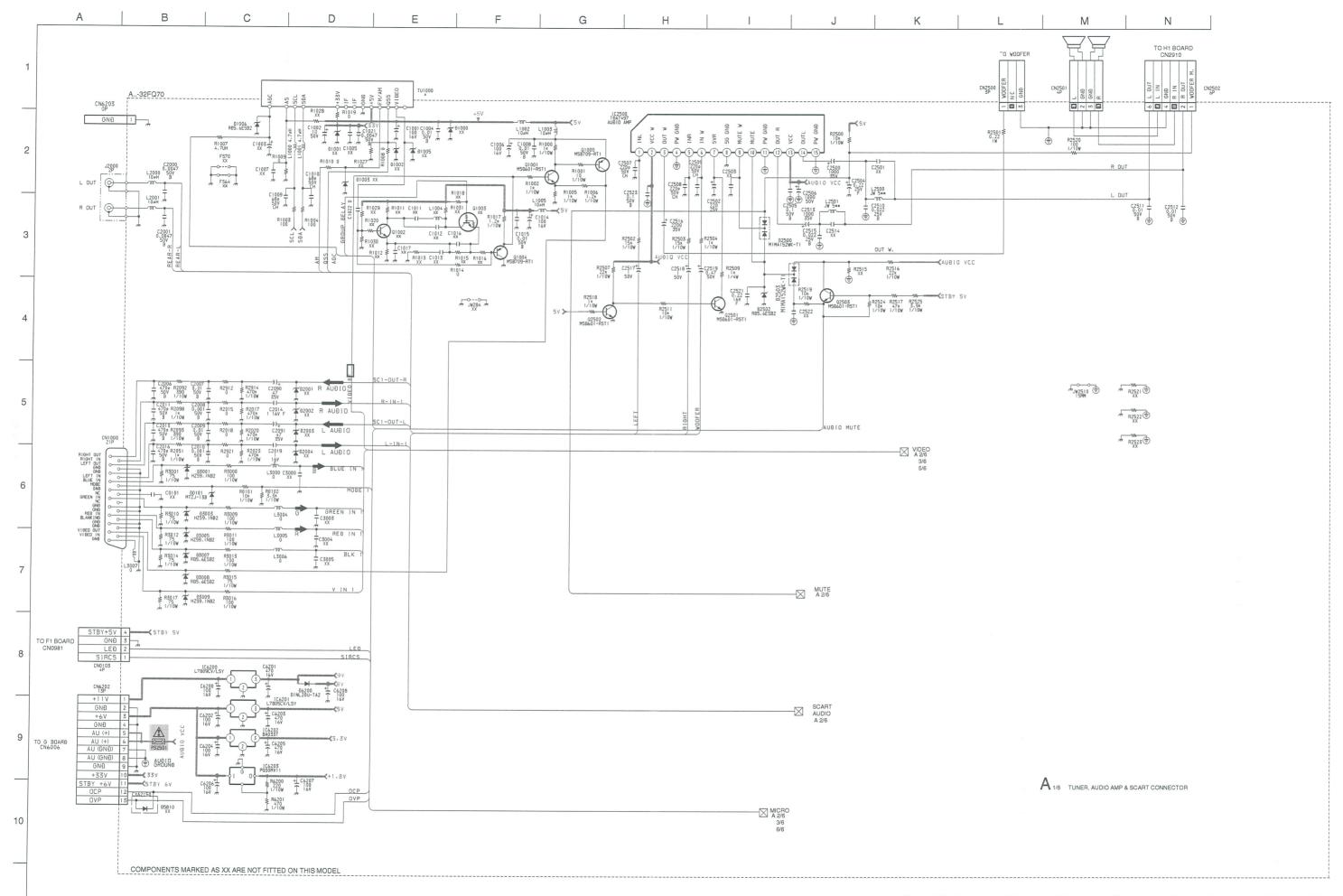
RESISTOR	RN	: METAL FILM	
	RC	: SOLID	
	FPRD	: NON FLAMMABLE CARBON	
	FUSE	: NON FLAMMABLE FUSIBLE	
	RS	: NON FLAMMABLE METAL OXIDE	
	RB	: NON FLAMMABLE CEMENT	
	RW	: NON FLAMMABLE WIREWOUND	
	*	: ADJUSTMENT RESISTOR	
COIL	LF-8L	: MICRO INDUCTOR	
CAPACITOR	TA	: TANTALUM	
	PS	: STYROL	
	PP	: POLYPROPYLENE	
	PT	: MYLAR	
	MPS	: METALIZED POLYESTER	
	MPP	: METALIZED POLYPROPYLENE	
	ALB	: BIPOLAR	
	ALT	: HIGH TEMPERATURE	
	ALR	: HIGH RIPPLE	

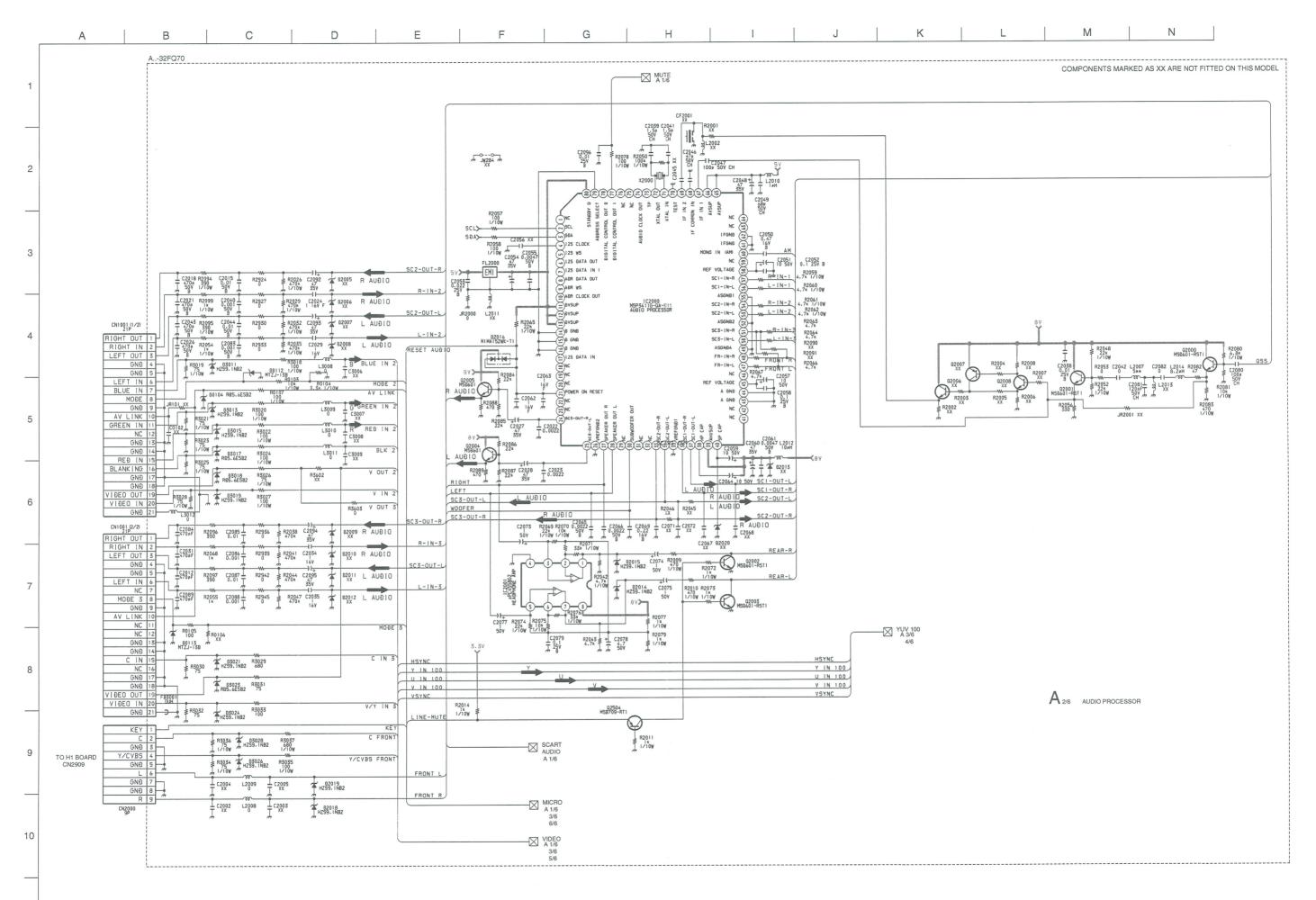
Note: The components identified by shading and marked ∆ are critical for safety.

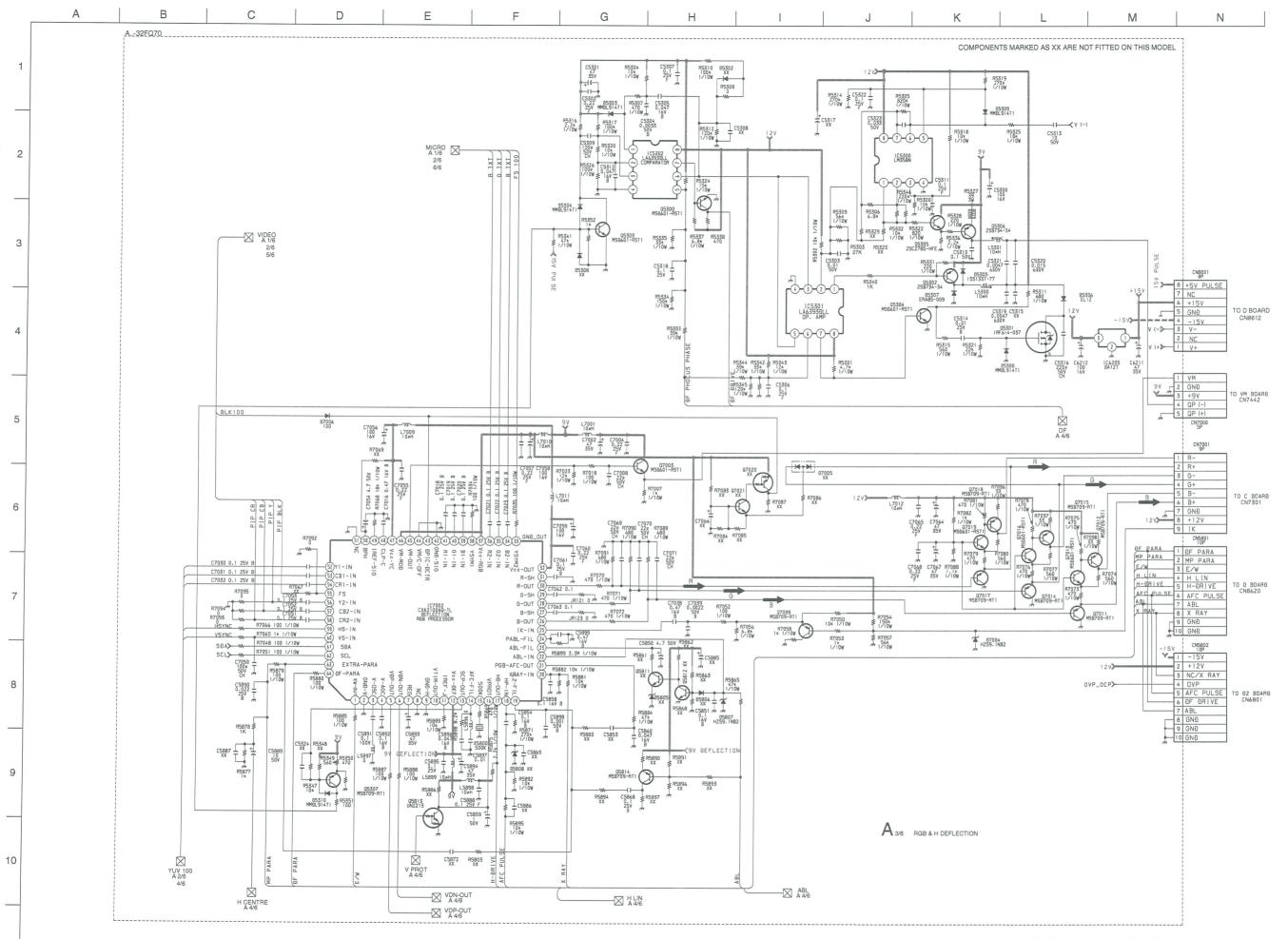
Replace only with the part numbers specified in the parts list.

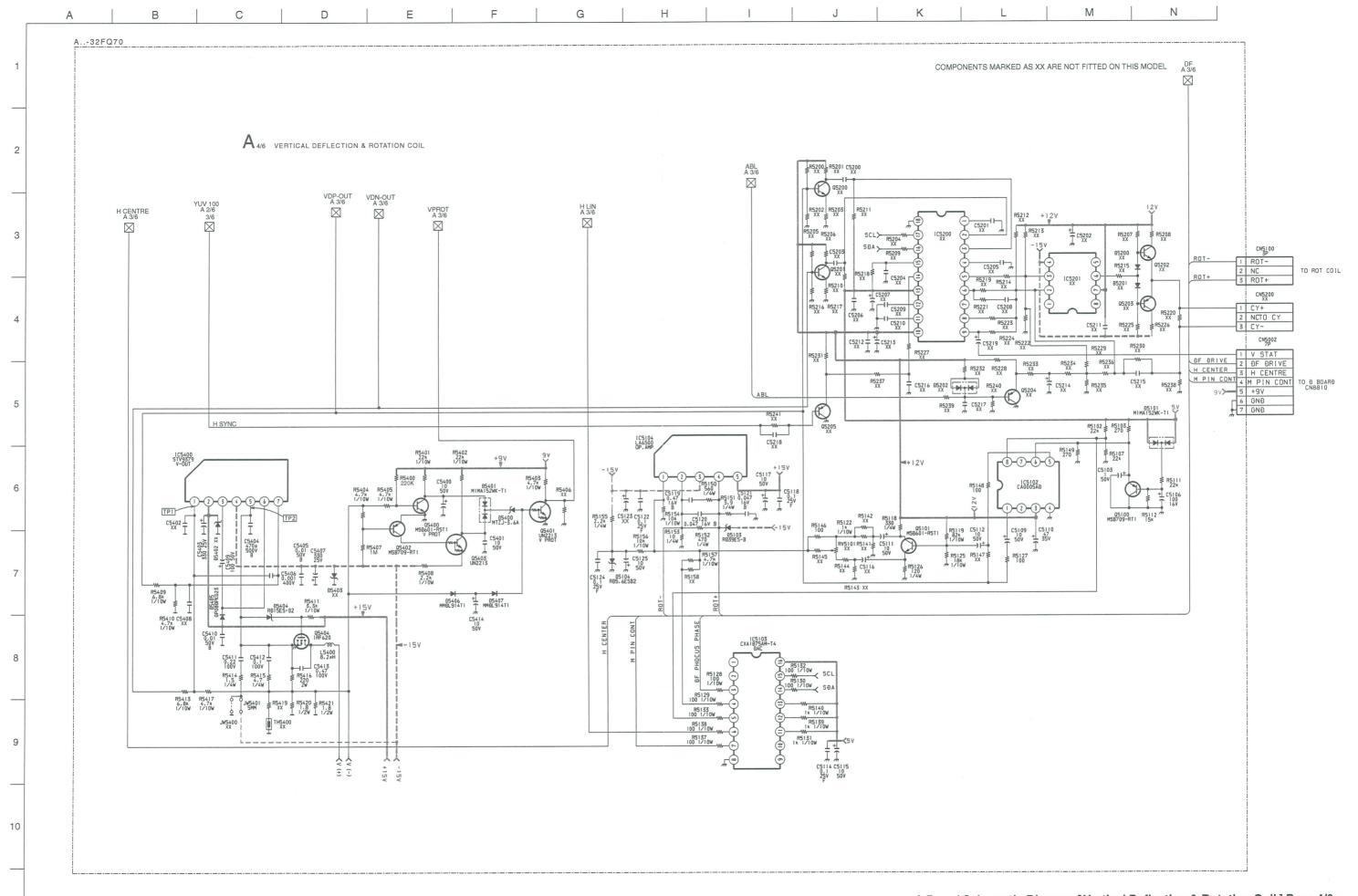
Note: Les composants identifiés par une trame et par une marque △ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

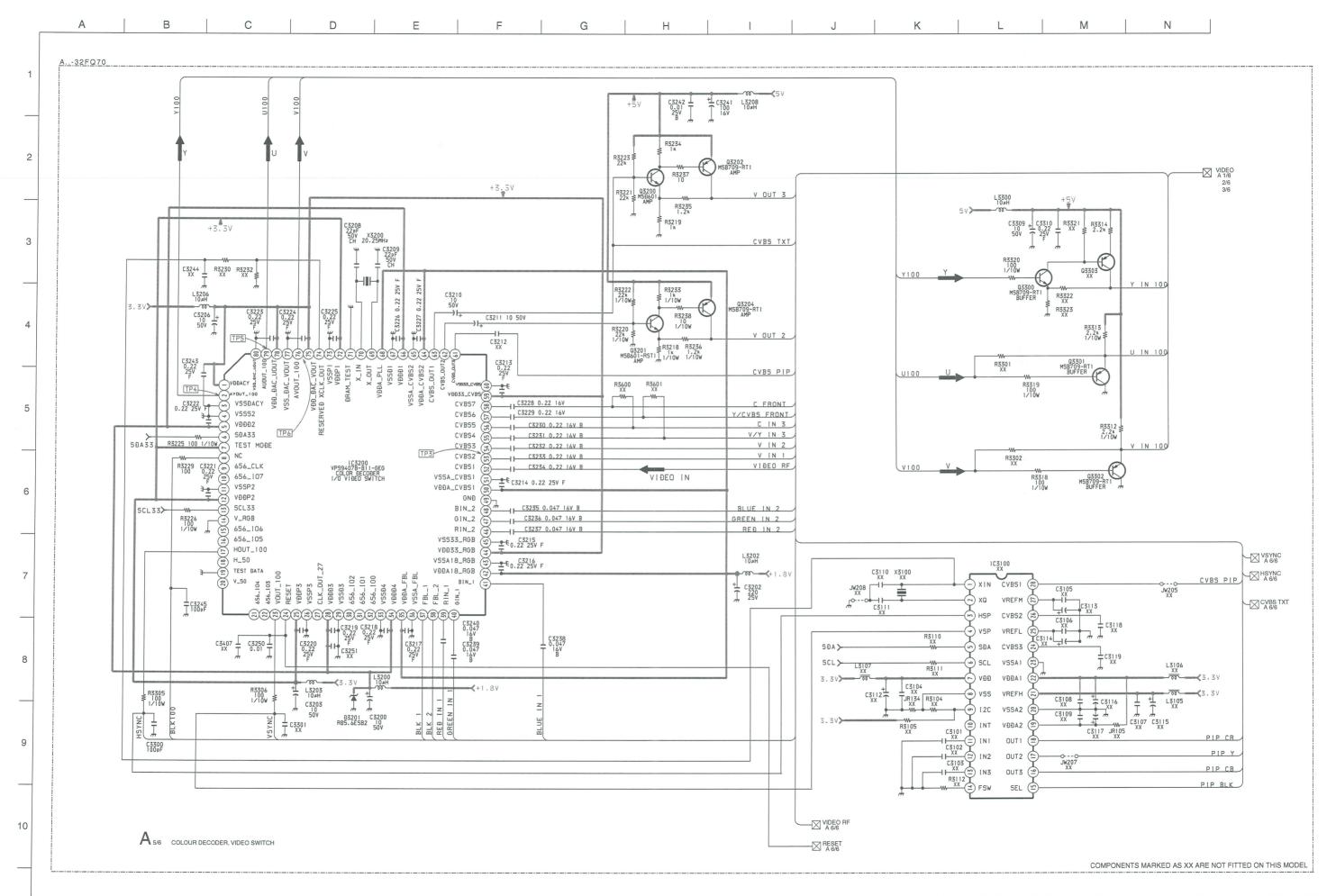
- 28 -



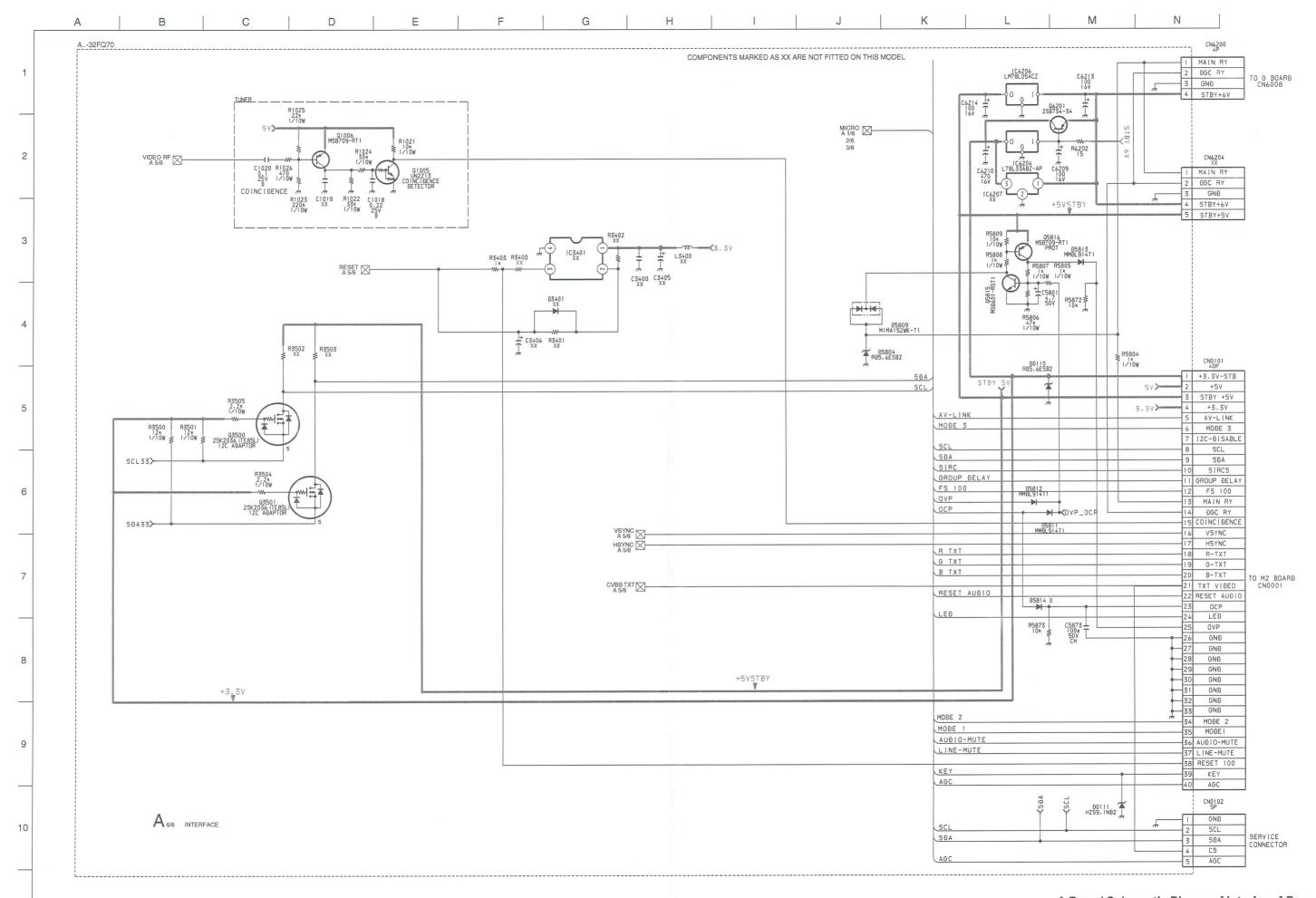




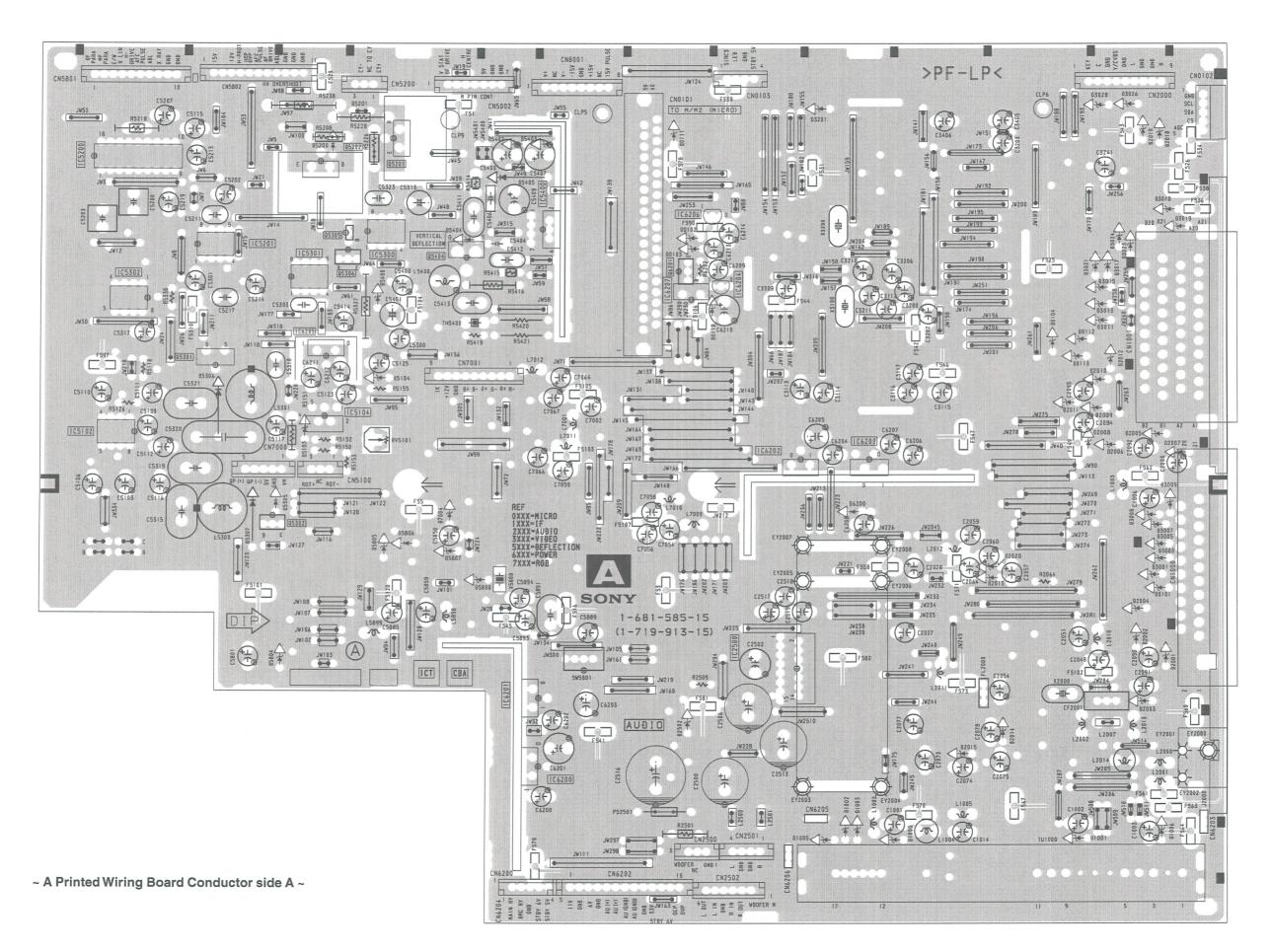




~ A Board Schematic Diagram [Colour Decoder, Video Switch] Page 5/6 ~

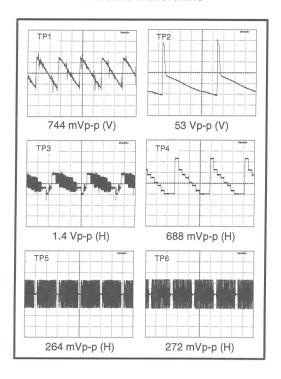


A B C D E F G H I J K L M N



G SONY ~ A Printed Wiring Board Conductor side B ~

~ A Board Waveforms ~



~ A Board Location Table (A Side) ~

DIO	DE	D1006	M - 10	D3003	M - 7	D3015	M - 4	D3026	M - 2	D5305	D - 6	D6200	J - 6	IC5301	D - 4	IC6206	H - 3
D0101	M - 7	D2014	L - 9	D3005	M - 7	D3017	M - 4	D3028	M - 2	D5306	C - 5	D7004	F - 7	IC5302	B - 4	IC6207	H - 4
D0104	L - 5	D2015	K - 9	D3007	M - 7	D3018	N - 3	D3201	J - 2	D5307	D - 7	IC		IC5400	G - 4	TRANS	ISTOR
D0110	1 - 4	D2018	M - 2	D3008	M - 7	D3019	N - 3	D5103	D - 6	D5400	E - 4	IC5104	D - 6	IC6201	G - 9	Q5202	E- 2
D0111	H - 2	D2019	M - 2	D3009	N - 7	D3021	M - 4	D5104	E - 5	D5404	F - 4	IC5200	B - 3	IC6202	1 - 6	Q5301	C - 5
D0112	M - 4	D2502	H - 9	D3011	M - 4	D3023	M - 4	D5200	D - 2	D5405	F - 3	IC5201	C - 4	IC6203	J - 6	Q5306	E-4
D0113	M - 5	D3001	M - 7	D3013	M - 4	D3024	M - 4	D5201	E - 2	D5807	F - 7	IC5300	E - 4	IC6205	D - 5	Q5404	F - 4

~ A Board Location Table (B Side) ~

DIC	DDE	D2503	G - 9	D3024	B - 3	D5309	J - 3	IC5103	L - 3	TRAN	SISTOR	Q3201	C - 2	Q5300	M - 4	Q7003	H - 6
D0101	B - 7	D3001	B - 7	D3026	B - 2	D5400	K - 4	IC5104	K - 5	Q1000	C - 6	Q3202	C - 3	Q5301	L - 5	Q7009	1 - 7
D0104	C - 5	D3003	B - 7	D3028	C - 2	D5401	J - 4	IC5200	M - 3	Q1001	D - 6	Q3204	C - 3	Q5302	K - 7	Q7011	J - 6
D0110	G - 4	D3005	B - 7	D3201	F - 2	D5404	J - 3	IC5201	L - 4	Q1004	D - 11	Q3300	F - 3	Q5303	M - 4	Q7012	J - 5
D0111	G - 2	D3007	B - 6	D5103	L - 6	D5405	1 - 3	IC5300	J - 3	Q1005	B - 2	Q3301	F - 3	Q5304	M - 5	Q7013	J - 6
D0112	C - 5	D3008	B - 6	D5104	J - 5	D5809	K - 8	IC5301	K - 4	Q1006	B - 3	Q3302	F - 3	Q5305	K - 3	Q7014	J - 6
D0113	C - 5	D3009	B - 6	D5200	K - 2	D5811	L - 8	IC5302	M - 4	Q2000	C - 9	Q3500	F - 3	Q5306	K - 4	Q7015	1 - 5
D1006	B - 10	D3011	C - 4	D5202	L - 4	D5812	L - 8	IC5400	1 - 3	Q2002	D - 9	Q3501	F - 3	Q5400	J - 4	Q7016	1 - 6
D2014	C - 9	D3013	C - 4	D5300	L - 5	D6200	E - 7	IC6200	1 - 9	Q2003	D - 9	Q5101	M - 5	Q5401	J - 4	Q7017	1 - 6
D2015	D - 9	D3015	C - 4	D5303	N - 4		IC	IC6201	I - 8	Q2004	E - 7	Q5200	M - 4	Q5402	J - 5	Q7018	1 - 5
D2016	E - 8	D3017	B - 4	D5304	M - 4	IC2000	C - 8	IC6202	F - 6	Q2005	E - 7	Q5201	N - 4	Q5403	J - 4	Q7019	1-6
D2018	B - 2	D3018	B - 3	D5305	L - 6	IC2001	D - 9	IC6203	E - 6	Q2501	G - 8	Q5202	K - 3	Q5404	J - 4		
D2019	B - 2	D3019	B - 3	D5306	L - 5	IC2500	F - 8	IC6205	K - 5	Q2502	G - 9	Q5203	J - 2	Q5813	J - 8		
D2500	G - 9	D3021	C - 4	D5307	L - 7	IC3100	E - 5	IC6206	G - 3	Q2503	G - 9	Q5204	L - 4	Q5815	L - 8		
D2502	G - 9	D3023	B - 3	D5308	M - 4	IC3200	E - 3	IC6207	G - 4	Q3200	C - 3	Q5205	M - 3	Q5816	L - 8		

~ A Board Semiconductor Voltage Table ~

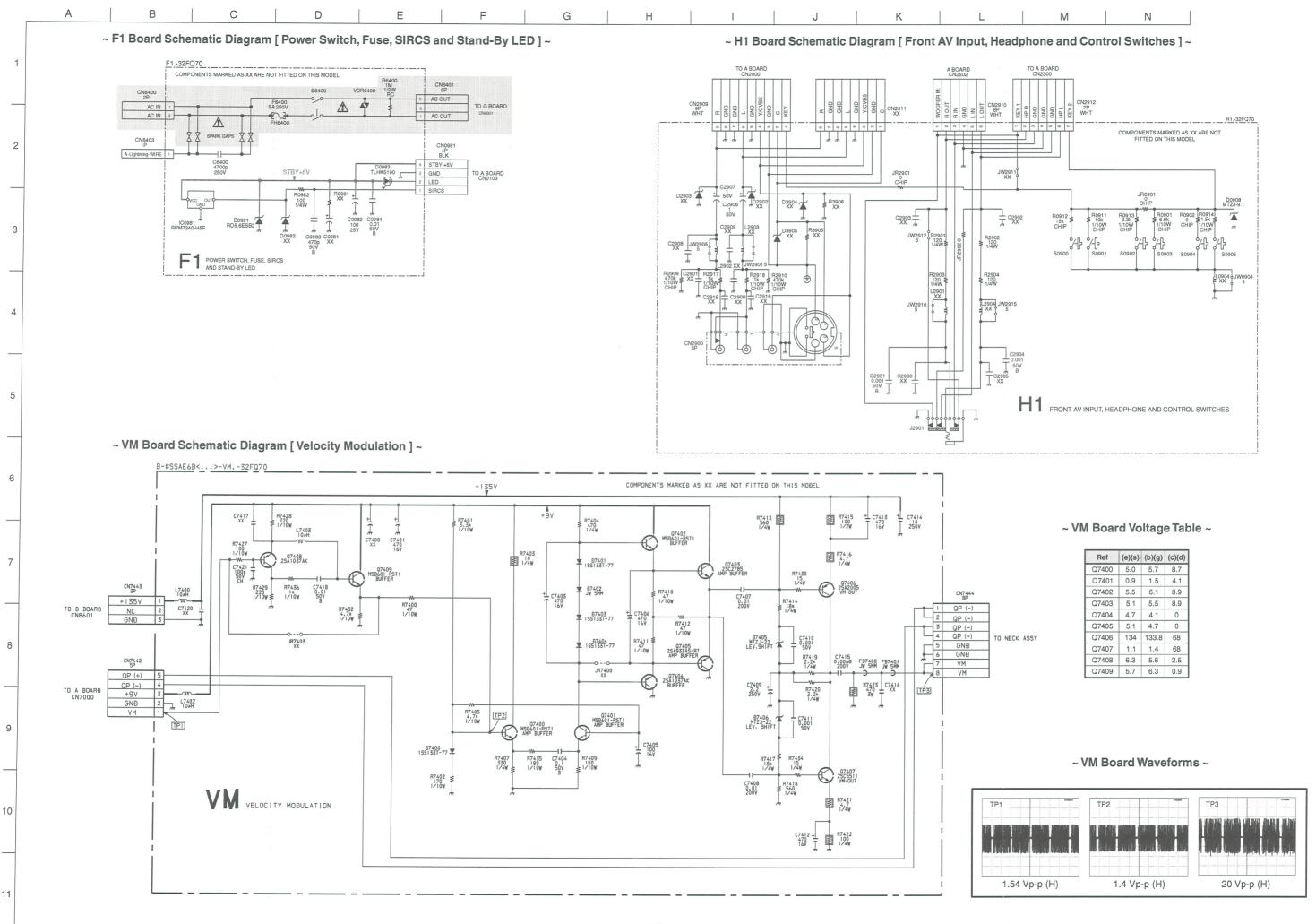
Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q3500	2.7	3.3	3.9	Q2002	0	0	4	Q3204	5	4.4	3.4	Q5205	1.9	1.2	0	Q5813	0	7.9	0	Q7015	11.6	10.9	8.8
Q3501	2.7	3.3	4	Q2003	0	0	4	Q3300	0.7	1.3	5	Q5300	0	0.4	2.2	Q5814	0	0	0	Q7016	6	6.6	10.9
Q5301	0	5.1	51.2	Q2004	3.3	3.9	8.3	Q3301	1.9	1.2	0	Q5301	5.1	0	51.2	Q5815	0	0	5	Q7017	2.7	2	0
Q5404	0	0	0.5	Q2005	3.3	3.9	8.3	Q3302	1.9	1.2	0	Q5302	8.9	5.7	0	Q5816	5	5	0	Q7018	11.6	10.9	8.6
Ref	(e)	(b)	(c)	Q2501	0	0	15.2	Q3500	3.3	2.7	3.9	Q5304	0	0.4	5.6	Q7003	5.6	6.2	8.8	Q7019	6	6.6	10.9
Q1001	3.2	3.9	8.3	Q2502	0	0.7	0	Q3501	3.3	2.7	4	Q3400	0	0	0.1	Q7009	3.2	7	0.1	Q7020	8.9	8.9	0
Q1004	1.9	1.3	0	Q2503	0.6	0.6	0.5	Q5101	0	0.4	6.4	Q5401	0	0	7.9	Q7011	2.5	1.9	0	Q7021	2.7	2.7	8.9
Q1005	0	0.5	5	Q3200	1.9	2.5	4.4	Q5201	2.8	3.4	7.9	Q5402	0	0	-11.3	Q7012	11.6	10.9	8.7				
Q1006	5	4.7	1	Q3201	1.9	2.5	4.4	Q5202	0.2	0.8	11.7	Q5403	-13.5	-11.2	-8.3	Q7013	6	6.6	10.9				
Q2000	4.2	4.8	8.3	Q3202	5	4.4	3.4	Q5203	0.2	0.8	11.7	Q5404	0	0	0.5	Q7014	2.5	1.8	0				

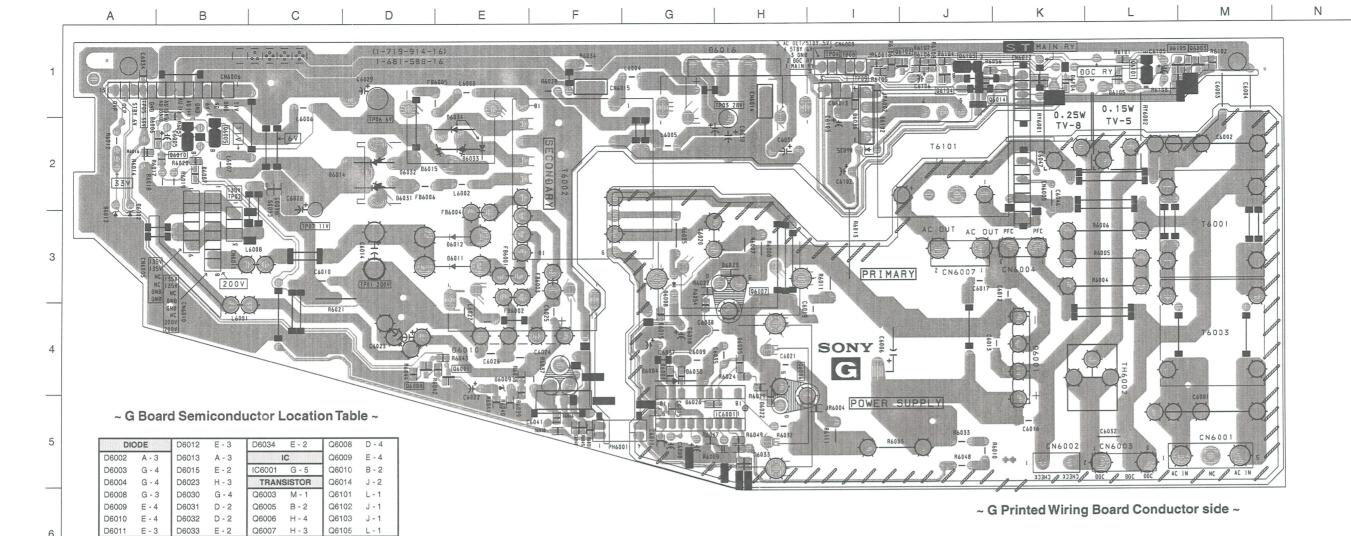
~ A Board IC Voltage Table ~

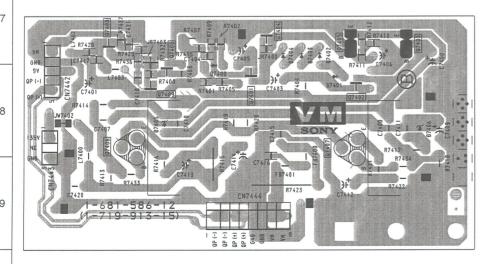
Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V
	1	3.3		5	6.5		10	0.4		38	0
	2	3.3	105004	6	7.1		11	1.9		39	4.8
	3	1.9	IC5301	7	0.4		12	0.4		40	4.8
	4	2.6		8	12		13	0.9		41	4.8
	5	2.5		1	0		14	5		42	0
	6	1.8		2	5.8		15	2.5		43	0
	7	2		3	6.3		16	0		44	0
105400	8	0	105000	4	0		17	3		45	6.3
IC5103	9	3.1	IC5302	5	6.6		18	2.7		46	8.9
	10	3		6	6.5		19	3.9		47	8.9
	11	5		7	0.4		20	0		48	6
	12	5		8	12		21	6.1		49	2.5
	13	5		1	1.4		22	2.7	IC7002	50	4.1
	14	0		2	13.2	IC7002	23	8.8	107002	51	0
	15	0		3	-12.5	107002	24	0		52	6
	16	5	IC5400	4	-15.4		25	4.3		53	5.8
	1	6		5	-0.4		26	3.2		54	5.8
	2	6		6	13.7		27	5.2		55	0.4
	3	6		7	1.4		28	0.3		56	5.8
105000	4	0		1	3.6		29	4.9		57	5.8
IC5300	5	6		2	0		30	3.4		58	5.8
	6	6		3	4.4		31	5.6		59	0.3
	7	6		4	4.8		32	8.9		60	0
	8	12	IC7002	5	3.5		33	0		61	0
	1	1.7		6	3.4		34	4.7		62	2.9
105004	2	8.5		7	7.6		35	4.7		63	3.7
IC5301	3	6.5		8	0		36	4.7			
	4	0		9	0		37	8.9			

~ A Board Difference Table ~

Ref	KV-32FQ70B	KV-32FQ70E	KV-32FQ70K	KV-32FQ70U
TU1000	FRONTEND	FRONTEND	FRONTEND	FRONTEND
	BTF-EF411	BTF-EC411	BTF-EC411	BTF-EU611



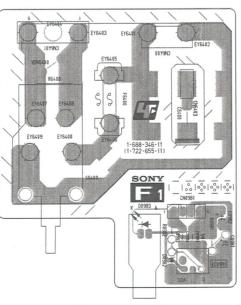




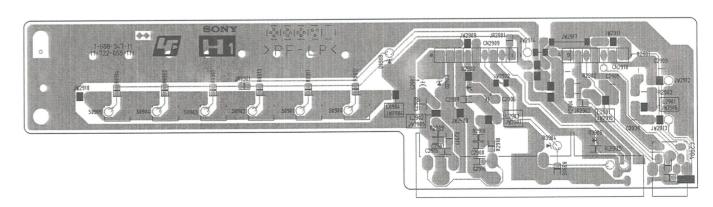
Q6007 H - 3

D6033

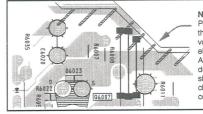
~ VM Printed Wiring Board Conductor side ~



~ F1 Printed Wiring Board Conductor side ~

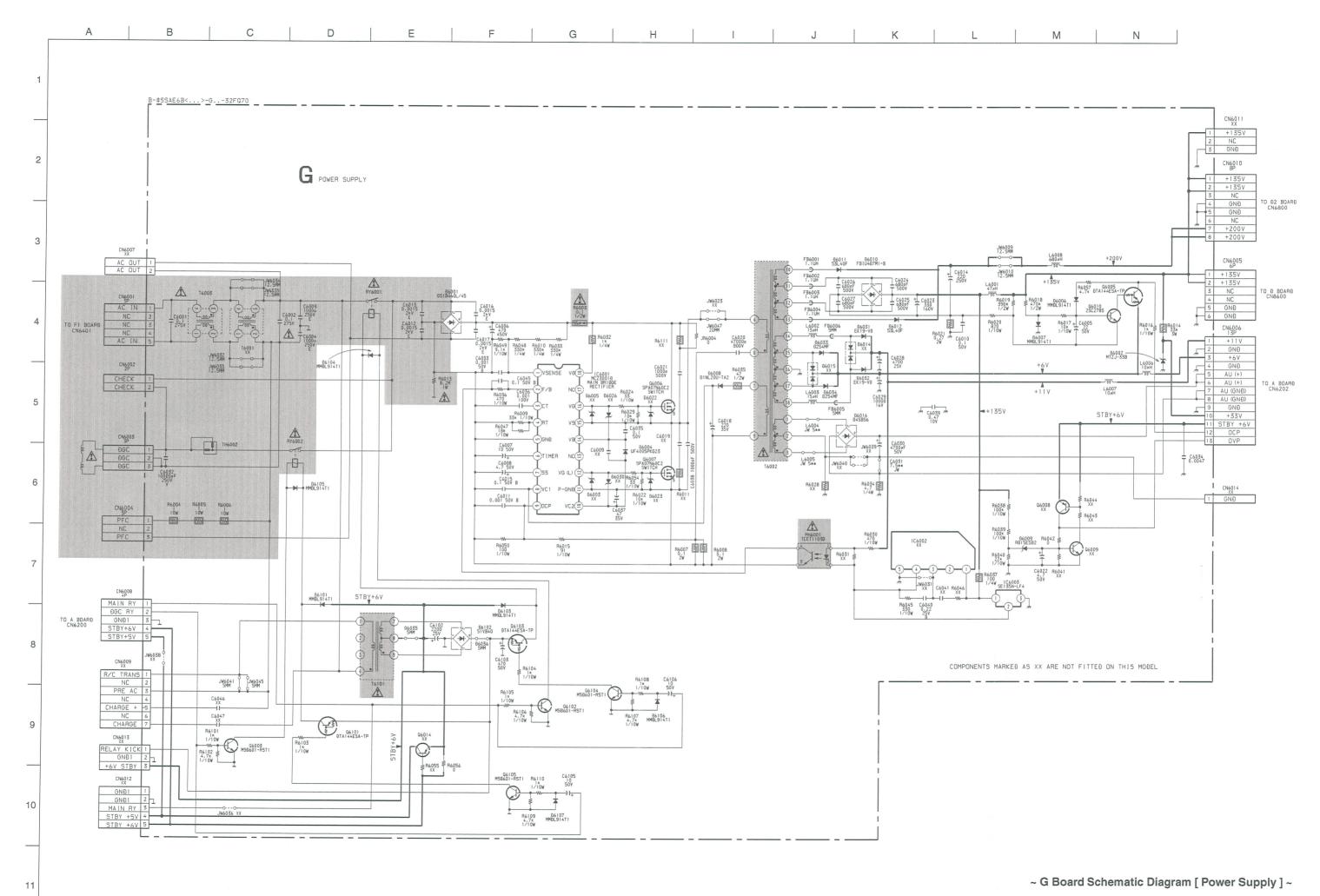


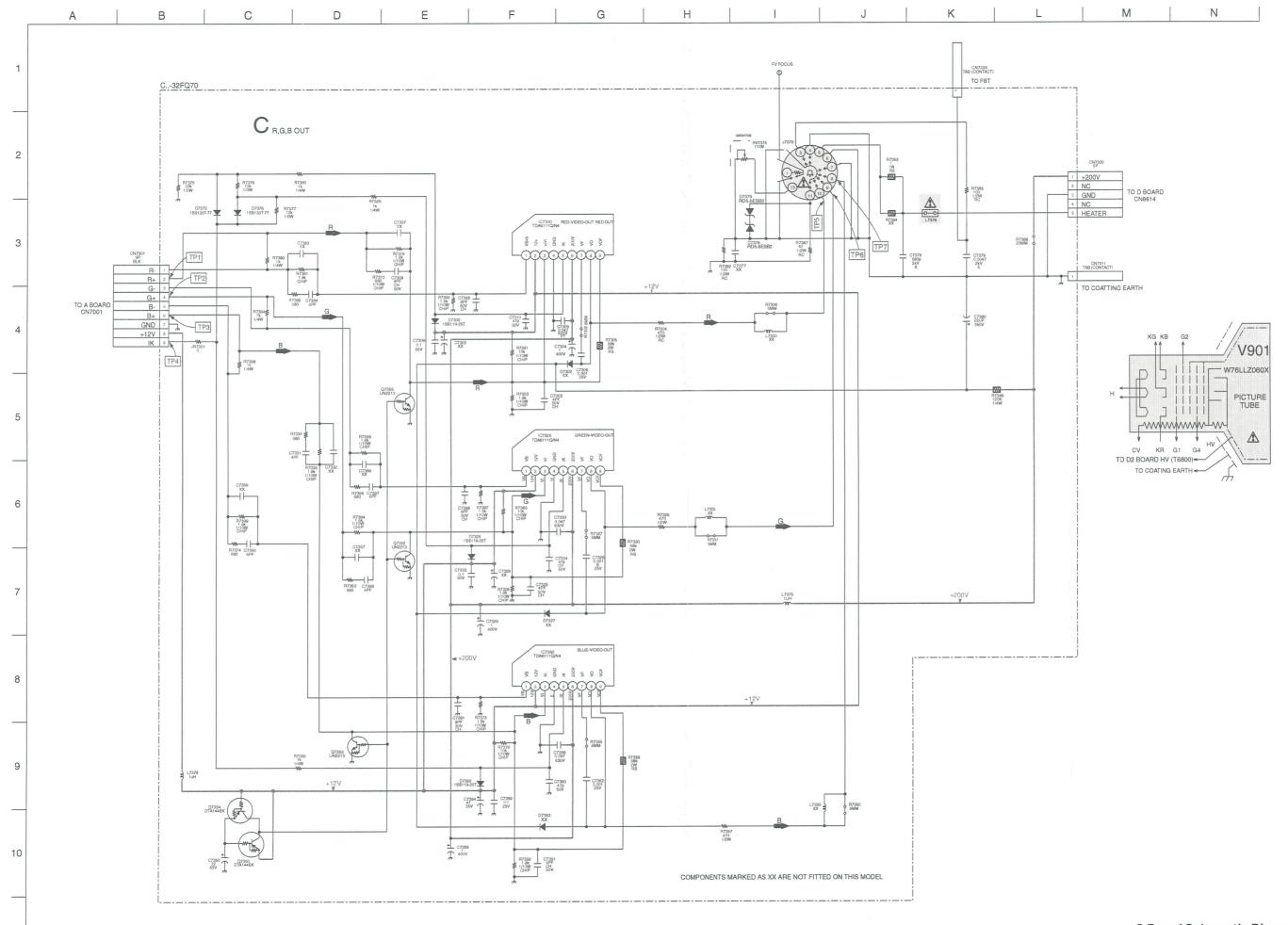
~ H1 Printed Wiring Board Conductor side ~



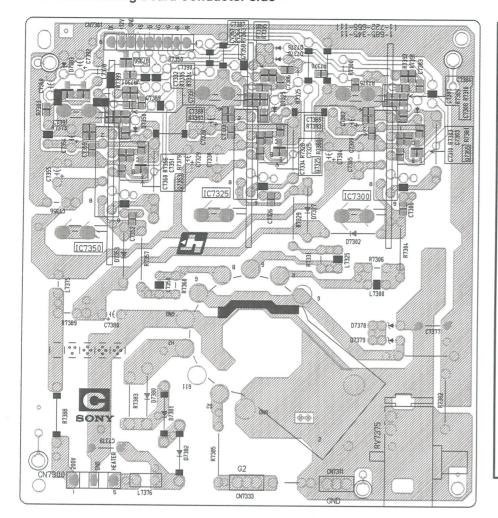
Note:

Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.

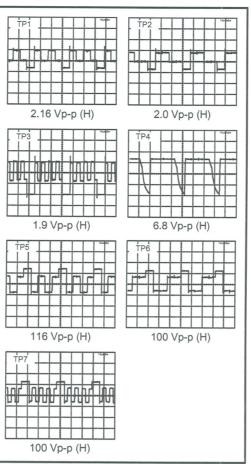




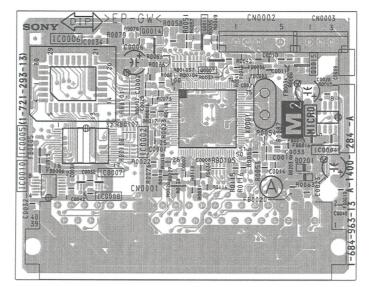
~ C Printed Wiring Board Conductor side ~



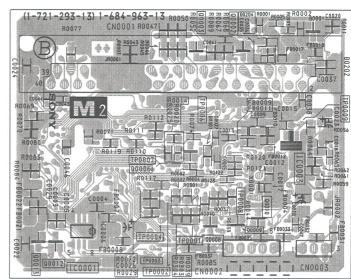
~ C Board Waveforms ~



~ M2 Printed Wiring Board Conductor side A ~



~ M2 Printed Wiring Board Conductor side B ~



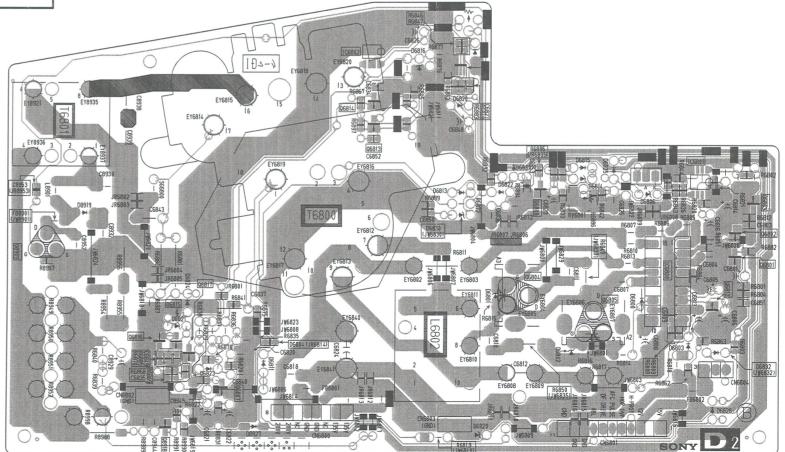
~ C Board Semiconductor Voltage Table ~

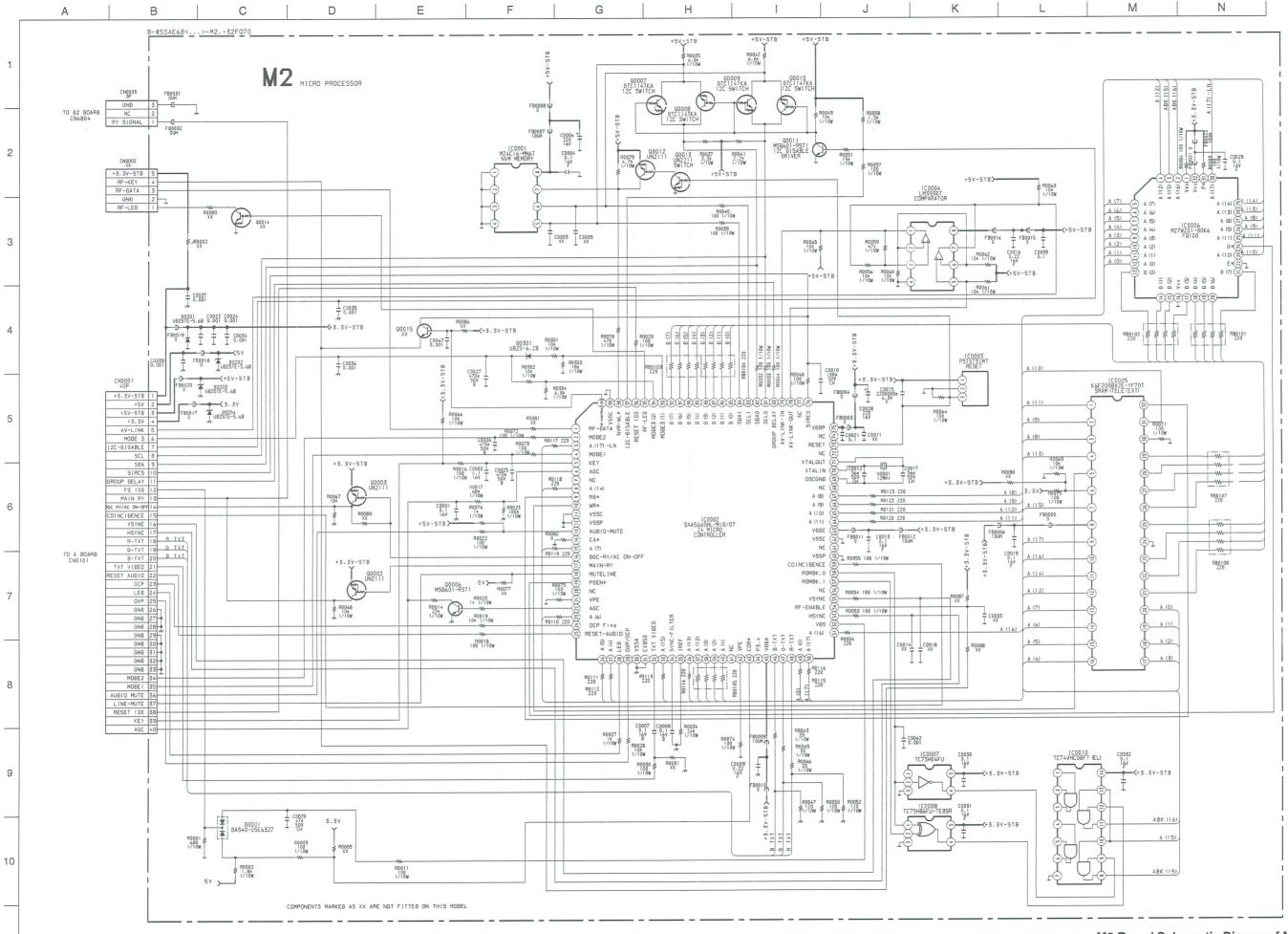
Ref	(e)	(b)	(c)
Q7350	12	11.98	0
Q7352	0	0	3.8
Q7353	0	0	3.8
Q7354	11.98	12	0
Q7355	0	0	3.8

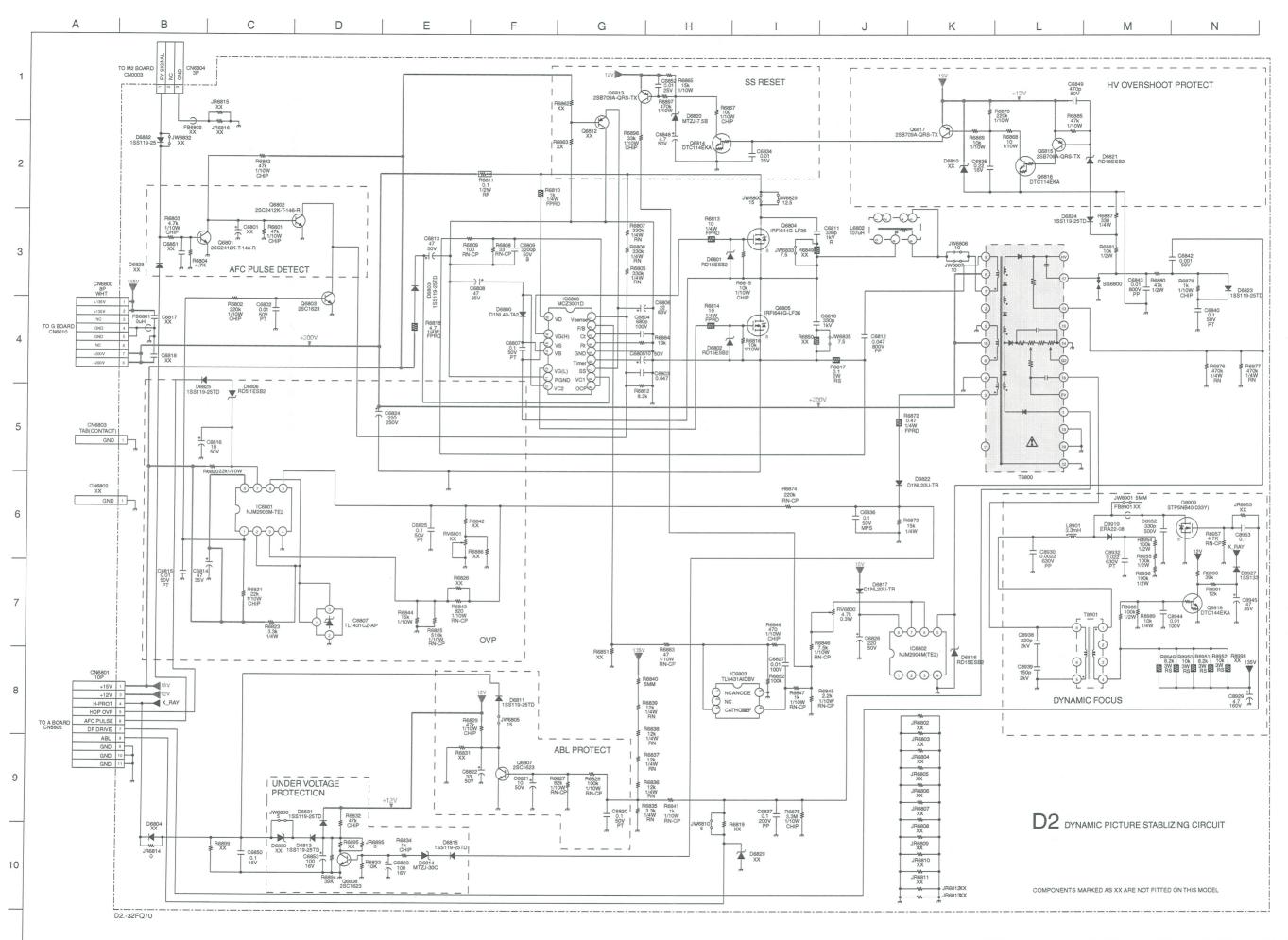
~ C Board IC Voltage Table ~

IC Voltage Table										
Ref No	Pin No	Voltage (V)								
	1	3.9								
	3	3.8								
	5	7.5								
IC7300	6	200								
	7	140								
	8	153								
	9	140								
	1	3.9								
	3	3.8								
	5	7.7								
IC7325	6	200								
	7	140								
	8	153								
	9	140								
	1	3.9								
	3	3.8								
	5	7.5								
IC7350	6	200								
	7	139								
	8	148								
	9	138								

~ D2 Printed Wiring Board Conductor side ~



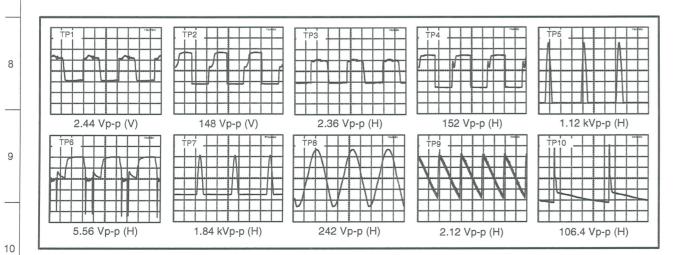




A | B | C | D | E | F | G | H | I | J | K | L | M | N

- D Printed Wiring Board Conductor side ~

~ D Board Waveforms ~

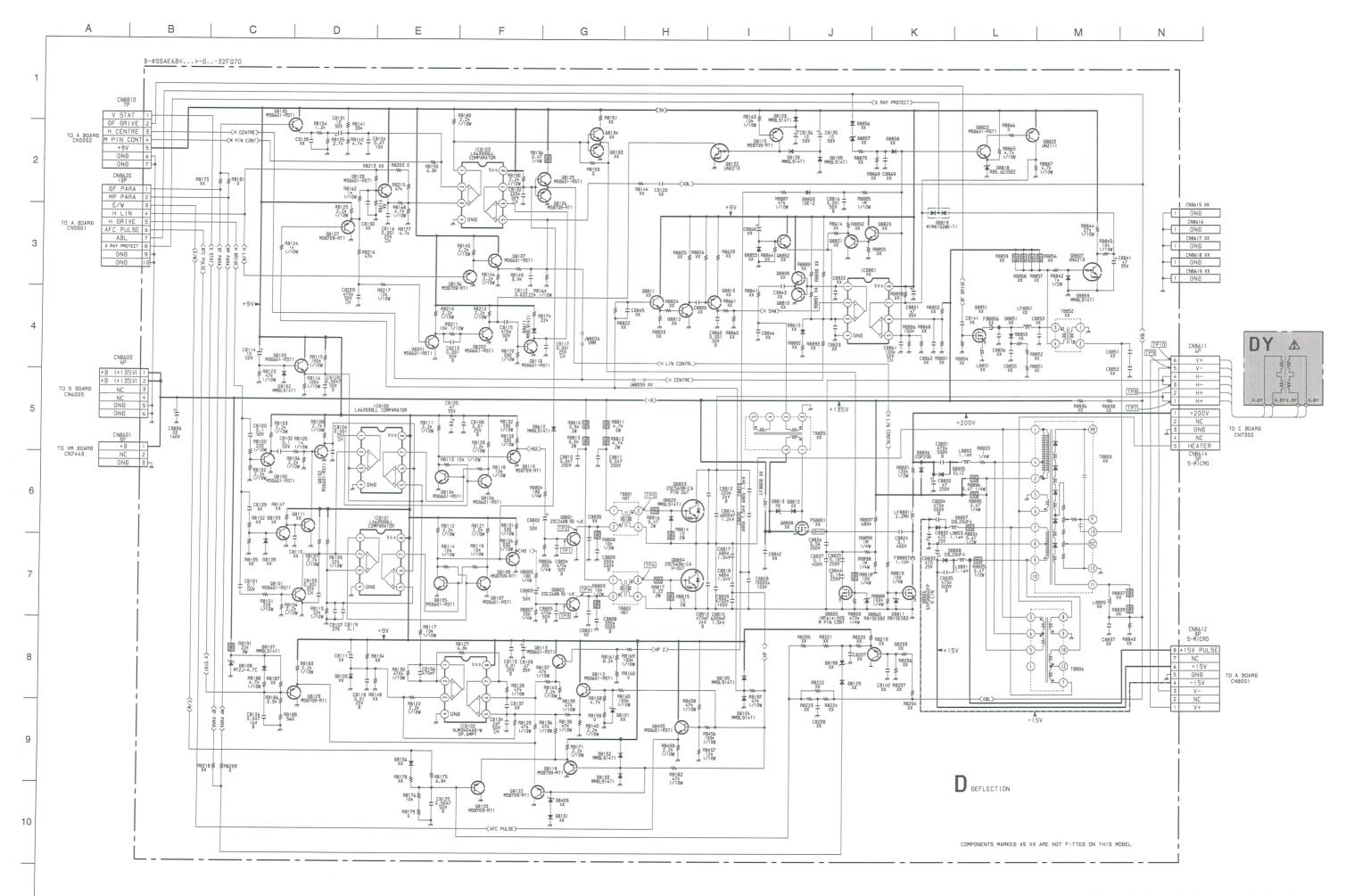


~ D Board IC Voltage Table ~

IC	Voltage	Table
Ref No	Pin No	Voltage (V)
	1	0.3
	2	4.3
IC8100	3	4.1
108100	5	4.1
	6	3.0
	7	0.4
	1	0.3
	2	4.3
IC8101	3 5	4.4
100101	5	4.4
	6	3.0
	7	0.4
	1	4.1
	3 5	0.4
IC8102	3	0.4
100102	5	0.4
	6	0.4
	7	0.4
	1	2.5
	2	2.1
IC8103	3	1.7
100103	5	1.6
	6	1.0
	7	1.1

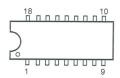
~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)												
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5



5-4. SEMICONDUCTORS

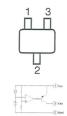
CXAB070AP MCZ3001D



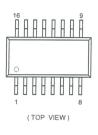
LM318P LM358N LM393DT LM393N M24C16-MN6T(A)



PST573IMT



CXA1875AM-T4



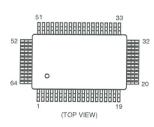
LM78L05ACZ



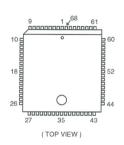
SAA5665HL/M1D/0358



CXA2100AQ-TL



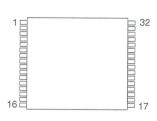
MSP3411G-QA-B11



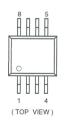
SBX3081-51(30)



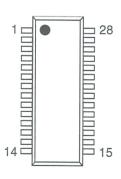
K6T2008V2E-YF70T



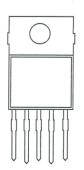
NJM3404AD-W UPC4558G2



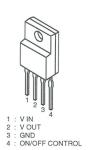
SDA9488X-B23GEG



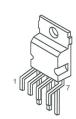
LA6500-FA



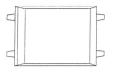
PQ30RV11



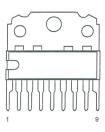
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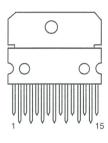
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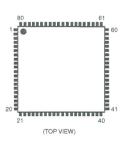
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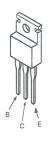
TDA7497



VPS9402-A32GEG



BA12T BAO33T IRF614-005 IRF620 SPA07N60C2 2SA2005 2SC5511



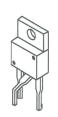
DTA144EK DTC144TKA-T146 2SA1162-G



DTA144ESA 2SA933AS-QT 2SC2785-HFE



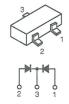
L7809CV/LSY STP5NB40FP STP5NB40(030Y) 2SC5698-CA 2S5696-SONY-CA



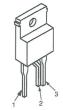
MSB709-RT1 MSD601-RST1 M1MA152WA-T1 UN2111 UN213 2SK2036(TE85L)



RB705D

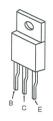


SE135N-LF4



1 VOUTSENSE 2 COLLECTOR 3 GND

2SA1837(LBS2S0N)



2SB734-34



2SC2688(5)-LK



BAS216



BAS316-115 MMDL914T1 UDZSTE-176.2B



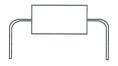
BYV98-200-RAS 15/12



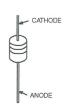
D1NL20U EGP20G EL1Z GP08D UF4005PKG23



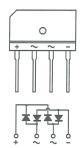
D2S4MTA1



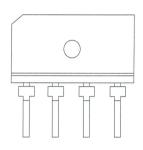
ERA38-06 MTZJ-T-77-22
ERA85-009 RD5.6ESB2
HZS9.1NB2 RD15ES-B2
MTZJ-13B RD39ES-B2
MTZJ-33B RD5.6ESB2
MTZJ-3.6A 1SS119-25
MTZJ-4.7C 1SS133T-77



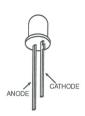
FBIU4D7MA-B RBV-406B S1VB40



GS1B460/45

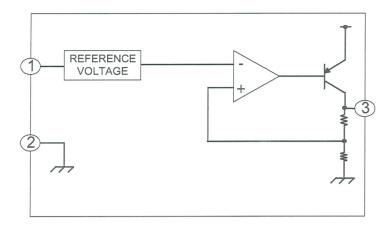


TLHK5190

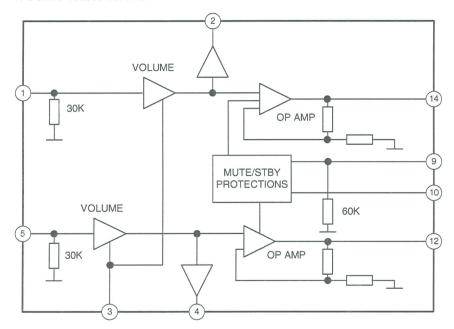


5-5 IC BLOCK DIAGRAMS

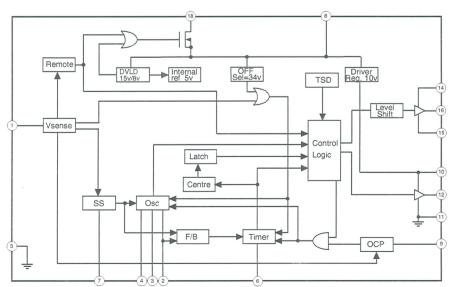
A BOARD IC6202/IC6205 BA033T/BA12T



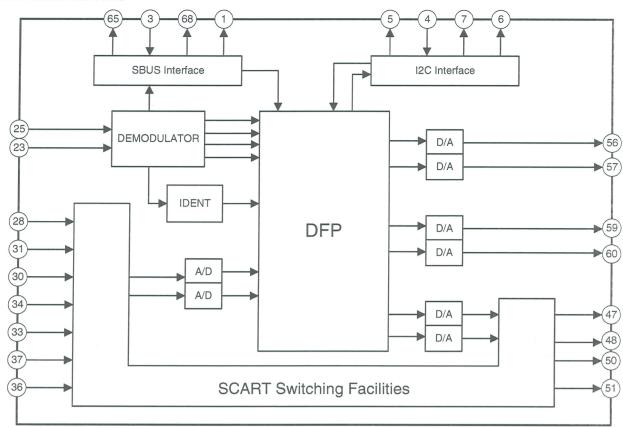
A BOARD IC2500 TDA7497



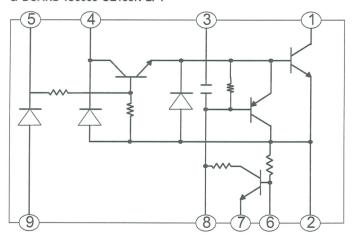
G BOARD IC6001 MCZ3001D



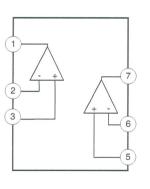
A BOARD IC2000 MSP3411G



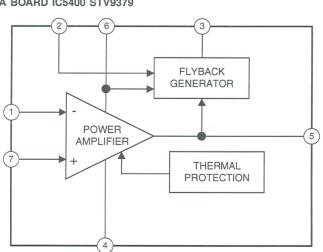
G BOARD IC6003 SE135N-LF4



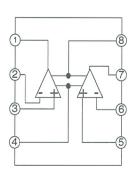
A BOARD IC5301/IC5302 LA6393DLL



A BOARD IC5400 STV9379



A BOARD IC5300 LM358N



SECTION 6 EXPLODED VIEWS

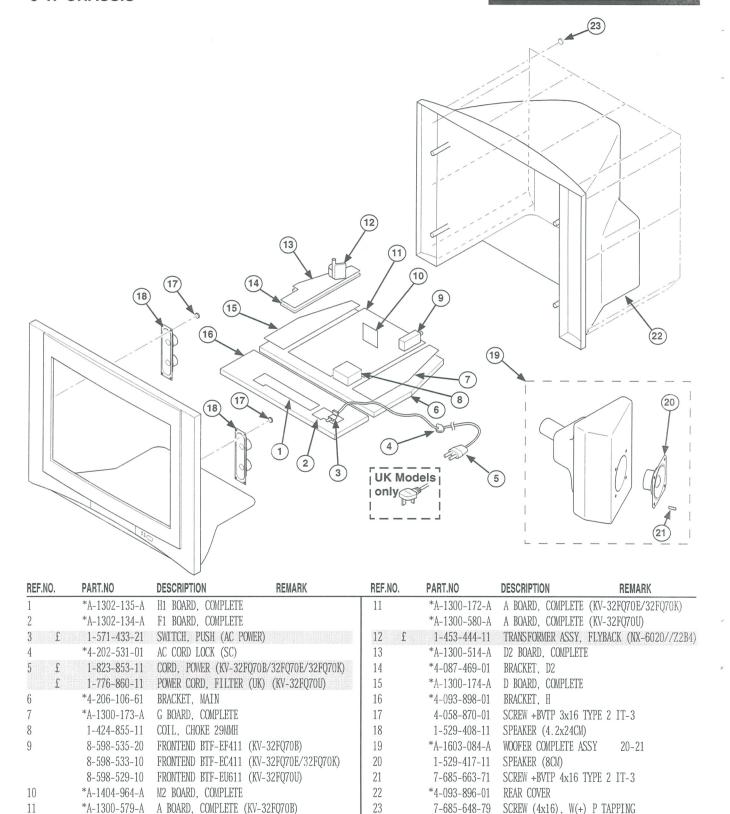
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

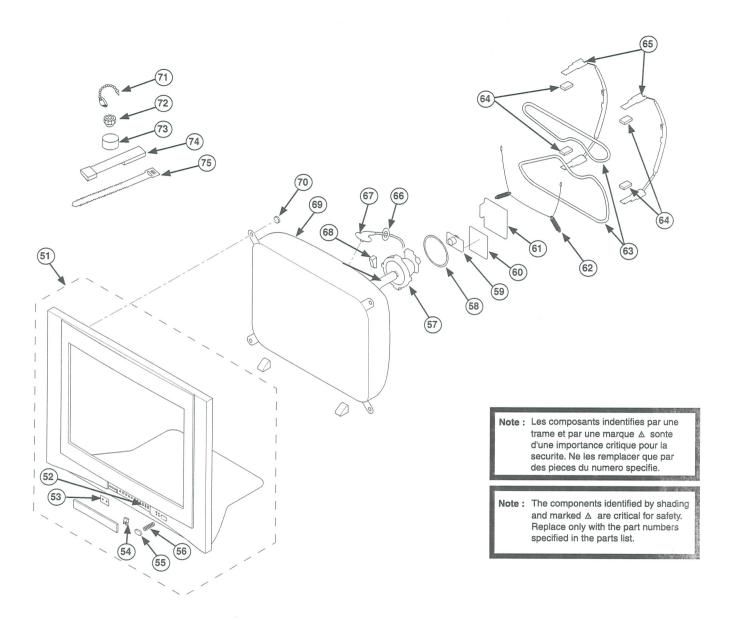
 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque ∆ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



6-2. PICTURE TUBE



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	*X-4041-364-1	BEZNET ASSY	52-56	64	4-203-390-11	CUSHION, DGC	
52	*4-087-533-01	MULTIBUTTON		65	*4-204-768-01	HOLDER, DGC	
53	4-087-530-01	GUIDE, LIGHT		66	*4-203-022-01	HOLDER, HV	
54	4-085-507-03	SPRING, DOOR		67 £	1-251-374-33	CAP ASSY, HIGH-VOLT	AGE
55	4-087-527-01	POWER BUTTON		68	3-704-495-01	SPACER, DY	
56	4-204-426-01	SPRING		69 £	8-735-079-05	PICTURE TUBE (W76LL	Z060X)
57 £	1-451-480-22	DEFLECTION YOKE (Y32RV	C2)	70	4-046-765-12	SCREW, TAPPING 7+CR	OWN WASHER
58	1-419-363-11	COIL, NA ROTATION		71	4-308-870-00	CLIP, LEAD WIRE	
59 £	8-453-011-11	NECK ASSY, (NA299-M)		72	1-452-094-00	MAGNET, ROTATABLE D	ISK; 15MM
60	*A-1300-627-A	VM BOARD, COMPLETE		73	1-452-032-00	MAGNET, DISK; 10MM	
61	*A-1302-133-A	C BOARD, COMPLETE		74	X-4387-214-1	PERMALLOY ASSY, COR	RECTION
62	4-369-318-21	SPRING, TENSION		75	3-701-007-00	BAND, BINDING	
63 £	1-424-888-11	COIL, DEGAUSSING					

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

		Page
G BOARD COMPLETE Parts List :		. 56
D BOARD COMPLETE Parts List :		57
D2 BOARD COMPLETE Parts List :		60
A BOARD COMMON Parts List: Pa	rts common to all models in this manual	62
A BOARD VARIANT Parts List: Pa	rts that belong only to the model specified	
Model		
(KV-32FQ70B):		71
(KV-32FQ70E):		71
(KV-32FQ70K):		. 71
(KV-32FQ70U):		
C BOARD COMPLETE Parts List :		. 71
F1 BOARD COMPLETE Parts List :		. 72
H1 BOARD COMPLETE Parts List :		. 73
M2 BOARD COMPLETE Parts List :		. 73
VM BOARD COMPLETE Parts List :		. 75
MISCELLANEOUS:		. 77
ACCESSORIES AND PACKAGING MA	ATERIALS:	77
REMOTE COMMANDER:		. 77

Note: Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) Parts indicated (XX) on the Schematic Diagram are not used in this model and

therefore do not appear in the Parts List.

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	DN .	REI	//ARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
* A-13	00-173-A G	Board, Con	plete				< CONNEC	CTOR >	
	4-382-854-01	SCRFW (M3X8), P, SW (+)			CN6001	£* 1-691-291-11	PIM COMMECTO	ID (DC ROADD) 5D
	4-382-854-01), P, SW (+)						R (5MM PITCH) 2P
	CADACT	TOD				0.0000000000000000000000000000000000000	£ * 1-508-765-00		R (5MM PITCH) 3P
	< CAPACI	10K >					£ * 1-691-960-11 * 1-817-037-61		R (PC BOARD) 3P
	1-137-999-11		0.1UF		275V	0110000	1 017 007 01	1 LOG, COMMECT	OK 01
	1-137-999-11 1-119-899-51	FILM CERAMIC	0.1UF	10 000	275V	CN6006	* 1-564-516-11	PLUG, CONNECT	
	1-119-699-51		1000PF 1000PF	10.00% 10.00%		CN6008 CN6010	* 1-564-507-11 * 1-564-511-11	PLUG, CONNECT PLUG, CONNECT	
C6005	1-126-965-91	ELECT	22UF	20.00%		0110010			
Cenne	1 117 759 11	EI ECT (DI OCI	470III	20 000	4007		< DIODE	>	
C6006 C6007	1-117-753-11 1-126-964-11	ELECT (BLOCK) ELECT	10UF	20.00% 20.00%		D6001	6-500-067-01	DIODE GSIB460	I /45
C6008	1-126-963-11	ELECT	4.7UF	20.00%		D6001	8-719-982-26	DIODE MIZJ-33	
C6010	1-136-165-00	FILM	0.1UF	5.00%		D6004	8-719-979-64	DIODE UF4005P	
C6011	1-162-964-11	CERAMIC CHI	0.001UF	10.00%	50V	D6006	8-719-081-97	DIODE MMDL9147	
CC012 C	1-104-571-91	CEDANTC	0.0017110	10 000/	21/1	D6007	8-719-081-97	DIODE MMDL914	<u>[1</u>
	1-104-571-91	CERAMIC CERAMIC	0.0015UF 0.0015UF	10.00% 10.00%		D6008	8-719-063-70	DIODE D1NL20U	
C6014	1-113-610-11	ELECT (BLOCK)		20%	250V	D6009	8-719-110-41	DIODE RD15ESB2	
C6015	1-115-339-11	CERAMIC CHII	0.1UF	10.00%	50V	D6010	8-719-085-24	DIODE FBIU4D7	
C6016	1-104-571-91	CERAMIC	0.0015UF	10.00%	2KV	D6011	8-719-033-12	DIODE S3L40F	
C6017	1-104-571-91	CERAMIC	0.0015UF	10.00%	NA C	D6012	8-719-033-12	DIODE S3L40F	
C6017	1-126-949-11	ELECT	220UF	20.00%		D6016	8-719-060-88	DIODE D4SBS6	
C6020	1-135-946-22	FILM	47000PF	3%	800V	D6031	8-719-080-59	DIODE EK19-VO	
C6021	1-164-645-11	CERAMIC	1000PF	10.00%		D6032	8-719-080-59	DIODE EK19-VO	
C6022	1-126-963-11	ELECT	4.7UF	20.00%	50V	D6033	8-719-022-97	DIODE D2S4MF	
C6023	1-110-626-11	ELECT	330UF	20 000/	100V	D6034	8-719-022-97	DIODE D2S4MF	
C6023	1-110-020-11	CERAMIC	680PF	20.00%		D6035	1-535-303-00	LEAD, JUMPER ((5 OM)
C6025	1-164-625-11	CERAMIC	680PF	10.00%		D6036	1-216-295-91		(J. Own)
C6026	1-164-625-11	CERAMIC	680PF	10.00%		D6101	8-719-081-97	DIODE MMDL9147	
C6027	1-164-625-11	CERAMIC	680PF	10.00%	500V	D6102	8-719-511-40	DIODE S1VB40	
C6028	1-128-548-11	ELECT	4700UF	20.00%	251/	D6103	8-719-081-97	DIODE MMDL914T	1
C6029	1-126-939-11	ELECT	10000F	20.00%		D6104	8-719-081-97	DIODE MMDL914T	1
C6030	1-119-940-51	ELECT	4700UF	20.00%		D6105	8-719-081-97	DIODE MMDL914T	
C6031	1-535-143-71	LEAD, JUMPER				D6106	8-719-081-97	DIODE MMDL914T	
C6032 £	1-113-927-11	CERAMIC	0.01UF		250V	D6107	8-719-081-97	DIODE MMDL914T	1
C6033	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V		< FERRITI	RFAD >	
C6034	1-162-968-11	CERAMIC CHIP		10.00%			That	, DIM -	
C6035	1-136-165-00	FILM	0.1UF	5.00%	50V	FB6001	1-410-397-21	FERRITE	1.1UH
C6036	1-136-479-11	FILM	0.001UF	5.00%		FB6002	1-410-397-21	FERRITE	1.1UH
C6037	1-126-947-11	ELECT	47UF	20.00%	35V	FB6003	1-410-397-21	FERRITE	1.1UH
C6038	1-164-645-11	CERAMIC	1000PF	10.00%	500V	FB6004 FB6005	1-410-397-21 1-535-303-00	FERRITE LEAD, JUMPER	1.1UH (5.0MM)
C6039	1-125-891-11	CERAMIC CHIP		10.00%		1 10000	1 000-000-00	υννν, J∪III EI\	(J. Umm)
C6040	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	I	FB6006	1-535-303-00	LEAD, JUMPER	(5.0MM)
C6045	1-115-339-11	CERAMIC CHIP		10.00%					
C6102	1-126-943-11	ELECT	2200UF	20.00%	25V		< IC >		
C6103	1-126-971-11	ELECT	470UF	20.00%	50V	IC6001	8-759-670-30	IC MCZ3001D	
C6105	1-126-964-11	ELECT	10UF	20.00%		IC6003		IC SE135N-LF4	
C6106	1-126-964-11	ELECT	10UF	20.00%	50V				



REF.NO.	PART.NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
	< COIL >				R6032	1-249-417-11	CARBON	1 K	5%	1/4W
					R6033	1-215-481-00	METAL	330K	1%	1/4W
6001	1-406-663-21	INDUCTOR	47UH		R6034	1-249-389-11	CARBON	4.7	5%	1/4W
6002	1-412-527-11	INDUCTOR	15UH		R6035	1-260-083-11	CARBON	47	5%	1/2W
.6003	1-412-527-11	INDUCTOR	15UH		R6036	1-216-817-11	METAL CHIP	470	5%	1/10W
					10000	1-210-017-11	METAL CITT	410	J/0	1/ 10W
6004	1-535-303-00	LEAD, JUMPER	(5.0MM)		DC027	1 040 405 11	CADDOM	100	E0/	1 /AW
6005	1-535-303-00	LEAD, JUMPER	(5.0MM)		R6037	1-249-405-11	CARBON	100	5%	1/4W
					R6038	1-208-830-11	METAL CHIP	100K		1/10W
.6006	1-406-659-11	INDUCTOR	10UH		R6039	1-208-830-11	METAL CHIP	100K		1/10W
.6007	1-412-525-31	INDUCTOR	10UH		R6040	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
8008	1-406-670-11	INDUCTOR	680UH		R6042	1-216-295-91	SHORT CHIP	0		
	Direction	NUDI DD			D00.45	4 040 000 44	MDM I OHTD	000	0 50/	4 (4 0 11)
	< PHOTOCO	JUPLER >			R6045	1-216-639-11	METAL CHIP	330		1/10W
					R6047	1-216-681-11	METAL CHIP	18K		1/10W
H6001 £	8-749-016-21	IC TCET1103G			R6048	1-215-481-00	METAL	330K		1/4W
					R6049	1-208-805-11	METAL CHIP	9.1K	0.5%	1/10W
	< TRANSIS	STOR >			R6050	1-208-758-11	METAL CHIP	100	0.5%	1/10W
0000	0.500.040.00	MD INCTOMOD 160T	DOM:		Door	4 040 045 44	MDWH OHTD	0.0	0 50/	4 (4 011)
6003	8-729-010-29	TRANSISTOR MSD			R6054	1-216-615-11	METAL CHIP	33	0.5%	1/10W
6005	8-729-029-56	TRANSISTOR DTA	144ESA		R6056	1-216-295-91	SHORT CHIP	0		
6006	6-550-146-01	TRANSISTOR SPA	.07N60C2-E81	.52	R6057	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
6007	6-550-146-01	TRANSISTOR SPA	.07N60C2-E81	.52	R6101	1-216-821-11	METAL CHIP	1K	5%	1/10W
6010	8-729-119-78	TRANSISTOR 2SC	22785-HFE		R6102	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
6101	8-729-029-56	TRANSISTOR DTA			R6103	1-216-821-11	METAL CHIP	1K	5%	1/10W
5102	8-729-010-29	TRANSISTOR MSD			R6104	1-216-821-11	METAL CHIP	1K	5%	1/10W
6103	8-729-029-56	TRANSISTOR DTA	144ESA		R6105	1-216-821-11	METAL CHIP	1K	5%	1/10W
6104	8-729-010-29	TRANSISTOR MSD	0601-RST1		R6106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
6105	8-729-010-29	TRANSISTOR MSD	0601-RST1		R6107	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	DECICTO	תו			R6108	1-216-821-11	METAL CHIP	1K	5%	1/10W
	< RESISTO	N(>			R6109		METAL CHIP	4.7K	5% 5%	1/10W 1/10W
00004	1 010 005 01	CHODE OUT D	0			1-216-829-11				
R6004	1-216-295-91	SHORT CHIP	0		R6110	1-216-821-11	METAL CHIP	1K	5%	1/10W
6003 £	1-202-933-61	FUSIBLE	0.1 10%	1/2W		< RELAY >				
6004 £	1-205-998-11		1 5%	10W		· Italian				
6005 £	1-205-998-11		1 5%	10W	RYGOO1 f	1-755-395-11	RELAY (AC POW	IFR)		
	1-205-998-11		1 5%	10W		1-755-389-11				
6007	1-243-979-21		0.1 5%	2W	1 10002 L	1-733-303-11	KELAI (AC 10)	ENJ		
1007	1-243-373-21	METAL VALUE	U.1 J/0	ZVV		< TRANSFO	IRMER ~			
8008	1-243-979-21	METAL OXIDE	0.1 5%	2W		< 110 u 0 1 0	Milli >			
6009	1-216-687-11			1/10W	T6002 f	1-437-850-12	(PIT) CONVERT	FR TRA	NSFORM	IFR
5010	1-215-481-00		330K 1%	1/4W	200000000000000000000000000000000000000	1-424-896-11	TRANSFORMER,			ILIK
	1-218-265-11			1W	100000000000000000000000000000000000000	1-437-483-11				
013 I	1-215-203-11		8.2M 5% 33K 5%	3W	10101 I	1-457-405-11	INANSPURMER,	STANDD	I	
014	1-213-920-00	METAL OATDE	331/ 3/0	SW		< THERMIS	TOR >			
5015	1-208-757-11	METAL CHIP	91 0.5%	1/10W		- IIIPINITO	.1011 -			
6016	1-216-821-11		1K 5%	1/10W	TH6002 f	1-804-650-11	THERMISTOR P	OSTTIV	E	
3010 3017	1-216-833-11		10K 5%	1/10W	1110000 4	1 001 000 11	THE SHOTOR, I	201111		
			470K 5%	1/10W 1/2W	* A-130	0-174-A DE	Roard Comp	lete		
n19	1-260-131-11				A-130	O ITT-A DE	oara, comp	ic ic		
	1-260-130-81	CARBON	390K 5%	1/2W		4-382-854-01	SCREW (M3X8),	P SW	(+)	
6018 6019		METAL CHIP	820 5%	1/10W		1 002 001-01	COLLIN (MONO),	1, 011	(')	
6019	1_216_920_11					< CAPACIT	MR >			
019	1-216-820-11		0 27 EN		I	< CAFACLI	OII -			
019 020 021	1-216-362-11	METAL OXIDE	0.27 5%	2W						
5019 5020 5021 5022	1-216-362-11 1-216-833-11	METAL OXIDE METAL CHIP	10K 5%	1/10W	001.00	1 100 105 00	PTIM	0.4100		F 0.00/ F037
5019 5020 5021 5022 5024	1-216-362-11 1-216-833-11 1-216-615-11	METAL OXIDE METAL CHIP METAL CHIP	10K 5% 33 0.5%	1/10W 1/10W	C8100	1-136-165-00		0.1UF		5.00% 50V
	1-216-362-11 1-216-833-11	METAL OXIDE METAL CHIP METAL CHIP	10K 5%	1/10W	C8101	1-136-165-00	FILM	0.1UF		5.00% 50V
019 020 021 022 024	1-216-362-11 1-216-833-11 1-216-615-11	METAL OXIDE METAL CHIP METAL CHIP	10K 5% 33 0.5%	1/10W 1/10W			FILM	0.1UF 0.1UF		



REF.NO.	PART.NO	DESCRIPTIO	N	RE	MARK	REF.NO.	PART.NO	DESCRIPTION	l	REMARK
C8104	1-115-416-11	CERAMIC CHI	P 0.001UF	5.00%	25V	C8831	1-102-228-00	CERAMI C	470PF	10.00% 500V
C8105	1-126-947-11	ELECT	47UF	20.009		C8832	1-126-941-11	ELECT	470UF	20.00% 25V
C8106	1-164-315-11	CERAMIC CHI		5.00%		C8833	1-126-941-11	ELECT	470UF	20.00% 25V
C8107	1-216-685-11	METAL CHIP			1/10W	C8834	1-102-228-00	CERAMIC	470PF	10.00% 500V
C8108	1-162-970-11	CERAMIC CHI		10.009		C8835	1-102-228-00	CERAMIC	470PF	10.00% 500V
C8109	1-126-947-11	ELECT	47UF	20.009		C8836	1-123-024-21	ELECT	33UF	160V
C8112	1-164-227-11	CERAMIC CHI		10.009		C8841	1-126-947-11	ELECT	47UF	20.00% 35V
C8113	1-162-970-11	CERAMIC CHI		10.009		C8844	1-115-513-21		0.18UF	5.00% 250V
C8114	1-126-964-11	ELECT	10UF	20.009		C8860	1-162-964-11	CERAMIC CHIP		10.00% 50V
C8115	1-162-962-11	CERAMIC CHI	P 470PF	10.009	6 50V	C8861	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C8116	1-115-416-11	CERAMIC CHIL		5.00%			< CONNECT	OR >		
C8117	1-115-416-11	CERAMIC CHIL		5.00%						
C8118	1-162-970-11	CERAMIC CHIE		10.009		CN8600	* 1-817-037-61	PLUG, CONNEC		
C8119	1-107-826-11	CERAMIC CHIE		10.009	6 16V	CN8601	* 1-816-980-71	PLUG, CONNEC		
C8124	1-125-891-11	CERAMIC CHIE	0.47UF	10.009	6 10V	CN8611	* 1-785-270-12	PIN, DY CONNI	ECTOR (PC BO	OARD)
						CN8612	* 1-816-979-51	PLUG, CONNEC	TOR 8P	
C8125	1-162-968-11	CERAMIC CHIE		10.009		CN8614	* 1-564-508-11	PLUG, CONNECT	TOR 5P	
C8126	1-165-176-11	CERAMIC CHIE		10.009	6 16V					
C8128	1-162-968-11	CERAMIC CHIE		10.00%	5 50V	CN8616	1-695-915-11	TAB (CONTACT)		
C8131	1-126-964-11	ELECT	10UF	20.009		CN8620	1-764-333-11	PIN, CONNECTO		YPE) 10P
C8132	1-164-230-11	CERAMIC CHIE	220PF	5.00%	50V	CN8810	* 1-564-510-11	PLUG, CONNECT	TOR 7P	
C8134	1-102-935-00	CERAMIC	2PF	0.25PF	50V		< DIODE >			
C8135	1-126-964-11	ELECT	10UF	20.00%						
C8136	1-126-964-11	ELECT	10UF	20.00%		D8102	8-719-081-97	DIODE MMDL914	1T1	
C8209	1-164-315-11	CERAMIC CHIE		5.00%		D8103	8-719-081-97	DIODE MMDL914		
C8210	1-162-964-11	CERAMIC CHIE		10.00%		D8104	8-719-081-97	DIODE MMDL914		
						D8105	8-719-081-97	DIODE MMDL914		
C8801	1-126-947-11	ELECT	47UF	20.00%	35V	D8107	8-719-081-97	DIODE MMDL914	IT1	
C8802	1-126-960-11	ELECT	1UF	20.00%	50V					
C8803	1-126-960-11	ELECT	1UF	20.00%	50V	D8108	8-719-921-40	DIODE MTZJ-4.	7C	
C8804	1-102-114-00	CERAMIC	470PF	10.00%	50V	D8128	8-719-081-97	DIODE MMDL914	IT1	
C8805	1-102-114-00	CERAMIC	470PF	10.00%	50V	D8132	8-719-081-97	DIODE MMDL914	IT1	
						D8133	8-719-081-97	DIODE MMDL914		
C8808	1-102-030-00	CERAMIC	330PF	10.00%	500V	D8199	8-719-081-97	DIODE MMDL914	IT1	
C8809	1-102-030-00	CERAMIC	330PF	10.00%	500V					
C8810	1-107-368-11	MYLAR	0.047UF	10.00%	200V	D8611	8-719-081-97	DIODE MMDL914	T1	
C8811	1-107-368-11	MYLAR	0.047UF	10.00%	200V	D8612	8-719-081-97	DIODE MMDL914	IT1	
C8812	1-162-131-11	CERAMIC	220PF	10.00%	2KV	D8803	8-719-200-02	DIODE 10E-2		
						D8805	8-719-302-43	DIODE EL1Z		
C8813	1-162-134-11	CERAMIC	470PF	10.00%		D8806	8-719-979-85	DIODE EGP20G		
C8814	1-117-640-11	FILM	6800PF	3.00%						
C8815	1-117-835-11	FILM	6200PF	3.00%	l l	D8807	8-719-510-73	DIODE S3L20UF		
C8816	1-162-964-11	CERAMIC CHIP		10.00%		D8808	8-719-510-73	DIODE S3L20UF		
C8817	1-125-893-11	FILM	680PF	3.00%	1.5KV	D8811	8-719-110-41	DIODE RD15ESE		
						D8818	8-719-109-89	DIODE RD5.6ES		
C8818	1-125-893-11	FILM	680PF	3.00%		D8819	8-719-050-38	DIODE M1MA152	WK-T1	
C8819	1-125-893-11	FILM	680PF	3.00%						
C8820	1-125-893-11	FILM	680PF	3.00%		D8820	8-719-081-97	DIODE MMDL914		
C8824	1-107-846-11	FILM	0.1UF	5.00%		D8859	8-719-081-97	DIODE MMDL914		
C8825	1-117-662-11	FILM	0.18UF	5.00%	250V	D8860	8-719-110-41	DIODE RD15ESE	32	
C8826	1-115-519-11	FILM	0.56UF	5.00%	250V		< FERRITE	BEAD >		
C8827	1-107-846-11	FILM	0.1UF	5.00%						
C8828	1-127-681-11	FILM	10000PF	2%	100V	FB8807	1-410-397-21	FERRITE	1.1UH	
C8829	1-127-680-11	FILM	4700PF	2%	100V				-	
C8830	1-107-655-11	ELECT	47UF	20.00%						
					1					



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK
	< IC >			Q8806	8-729-047-59	TRANSISTOR ST		
IC8100	8-759-659-67	IC LA6393DLL		Q8807 Q8822	8-729-421-19 8-729-010-29	TRANSISTOR UN TRANSISTOR MS		
IC8101	8-759-659-67	IC LA6393DLL		Q8823	8-729-424-08	TRANSISTOR UN		
IC8102	8-759-638-79	IC NJM3404AD-W						
IC8103	8-759-659-67	IC LA6393DLL			< RESISTO)R >		
	< COIL >			R8100	1-216-813-11	METAL CHIP	220 5%	1/10W
L8801	1-410-397-21	FERRITE 1.1UH		R8101 R8102	1-216-813-11 1-216-825-11	METAL CHIP METAL CHIP	220 5% 2.2K 5%	1/10W 1/10W
L8802	1-410-397-21	FERRITE 1.10H		R8103	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
L8803	1-410-397-21	FERRITE 1.1UH		R8104	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
	< INDUCTO	OR >		R8105	1-216-821-11	METAL CHIP	1K 5%	1/10W
I D0004	1 400 005 11	TADMOTOD		R8106	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
LF8801	1-406-985-11	INDUCTOR 2.2MH		R8107 R8108	1-208-792-11 1-208-792-11	METAL CHIP METAL CHIP	2.7K 0.5% 2.7K 0.5%	
	< TRANSIS	STOR >		R8109	1-208-814-91	METAL CHIP		1/10W
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1		R8110	1-208-814-91	METAL CHIP	22K 0.5%	1/10W
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1		R8111	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1		R8112	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
Q8103 Q8104	8-729-010-29 8-729-010-29	TRANSISTOR MSD601-RST1 TRANSISTOR MSD601-RST1		R8113 R8114	1-216-833-11 1-216-833-11	METAL CHIP METAL CHIP	10K 5% 10K 5%	1/10W 1/10W
Ų01U4	0-729-010-29			N0114	1-210-033-11			1/10W
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1		R8115	1-216-845-11	METAL CHIP	100K 5%	1/10W
Q8106 Q8107	8-729-010-29 8-729-010-29	TRANSISTOR MSD601-RST1 TRANSISTOR MSD601-RST1		R8116 R8117	1-216-845-11 1-216-833-11	METAL CHIP METAL CHIP	100K 5% 10K 5%	1/10W 1/10W
Q8107 Q8108	8-729-010-25	TRANSISTOR MSB709-RT1		R8118	1-216-833-11	METAL CHIP	10K 5%	1/10W
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1		R8119	1-216-833-11	METAL CHIP	10K 5%	1/10W
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1		R8120	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1		R8121	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
Q8115 Q8118	8-729-010-05 8-729-010-29	TRANSISTOR MSB709-RT1 TRANSISTOR MSD601-RST1		R8122 R8123	1-216-825-11 1-216-841-11	METAL CHIP METAL CHIP	2.2K 5% 47K 5%	1/10W 1/10W
Q8119	8-729-010-29	TRANSISTOR MSB709-RT1		R8124	1-216-821-11	METAL CHIP	1K 5%	1/10W
Q8120 Q8122	8-729-010-05 8-729-010-05	TRANSISTOR MSB709-RT1 TRANSISTOR MSB709-RT1		R8125 R8126	1-216-825-11 1-216-815-11	METAL CHIP METAL CHIP	2.2K 5% 330 5%	1/10W 1/10W
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1		R8127	1-208-802-11	METAL CHIP		1/10W
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1		R8128	1-208-822-11	METAL CHIP		1/10W
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1	Þ	R8129	1-208-822-11	METAL CHIP	47K 0.5%	1/10W
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1		R8130	1-208-846-11	METAL CHIP		1/10W
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1		R8131 R8132	1-216-815-11 1-216-815-11	METAL CHIP	330 5% 330 5%	1/10W
Q8132 Q8135	8-729-421-19 8-729-010-29	TRANSISTOR UN2213 TRANSISTOR MSD601-RST1		R8133	1-216-815-11	METAL CHIP METAL CHIP	330 5% 330 5%	1/10W 1/10W
Q8136	8-729-010-05	TRANSISTOR MSB709-RT1		R8136	1-208-822-11	METAL CHIP		1/10W
Q8137	8-729-010-29	TRANSISTOR MSD601-RST1		R8137	1-208-822-11	METAL CHIP	47K 0.5%	1/10W
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1		R8138	1-208-822-11	METAL CHIP		1/10W
Q8202 08455	8-729-010-29 8-729-010-29	TRANSISTOR MSD601-RST1		R8139 R8140	1-208-822-11	METAL CHIP		1/10W
Q8455 Q8801	8-729-010-29 8-729-048-47	TRANSISTOR MSD601-RST1 TRANSISTOR 2SC2688(5)-LK		R8141	1-216-825-11 1-208-818-11	METAL CHIP METAL CHIP		1/10W 1/10W
	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8142		METAL CHIP		
Q8802 Q8803	8-729-048-47	TRANSISTOR 2SC5698-SONY-CA		R8142 R8143	1-208-798-11 1-216-825-11	METAL CHIP	4.7K 0.5% 2.2K 5%	1/10W 1/10W
Q8804	8-729-056-17	TRANSISTOR 2SC5696-SONY-CA		R8145	1-216-825-11	METAL CHIP	2.2K 5%	1/10W
Q8805	8-729-050-48	TRANSISTOR IRF614-005		R8146	1-208-790-11	METAL CHIP	2.2K 0.5%	1/10W



REF.NO.	PART.NO	DESCRIPTIO	N		REMARK	REF.NO.	PART.NO	DESCRIPTION	V		REMARK
R8149	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R8808	1-260-340-11	CARBON	10K	5%	1/2W
R8150	1-218-867-11	METAL CHIP			1/10W	R8809	1-260-340-11	CARBON	10K	5%	1/2W
R8153	1-216-295-91	SHORT CHIP	0	0.07		R8810	1-216-460-11	METAL OXIDE	3.9K		2W
R8154	1-208-784-11	METAL CHIP	-	0.5%	1/10W	R8811	1-215-896-00	METAL OXIDE	4.7K		2W
R8155	1-216-059-00	RES-CHIP		5%	1/10W	R8812	1-215-896-00	METAL OXIDE	4.7K		2W
10100	1 210 000 00	ido omi	2.11	370	17 10 11	10012	1-213-030-00	MILIAL OAIDE	4.71	J /0	ZW
R8158	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R8813	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8159	1-216-295-91	SHORT CHIP	0			R8814	1-215-880-00	METAL OXIDE	10	5%	2W
R8160	1-216-295-91	SHORT CHIP	0			R8815	1-215-880-00	METAL OXIDE	10	5%	2W
R8161	1-208-804-11	METAL CHIP		0.5%	1/10W	R8816	1-216-365-00	METAL OXIDE	0.47	5%	2W
R8162	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8817	1-216-361-00	METAL OXIDE	0.22	5%	2W
	0 11	Maria Citt	111	070	17 1011	10011	1 210 001 00	METTE ONLDE	0.22	370	LII
R8163	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8818	1-249-405-11	CARBON	100	5%	1/4W
R8164	1-208-814-91	METAL CHIP	22K	0.5%	1/10W	R8819	1-247-807-31	CARBON	100	5%	1/4W
R8165	1-208-830-11	METAL CHIP	100K	0.5%	1/10W	R8831	1-260-124-11	CARBON	120K	5%	1/2W
R8168	1-216-829-11	METAL CHIP	4.7K		1/10W	R8833	1-202-972-61	FUSIBLE	1	5%	1/4W
R8169	1-208-830-11	METAL CHIP	100K	0.5%	1/10W	R8834	1-260-288-11	CARBON	0.47	5%	1/2W
R8170	1-216-815-11	METAL CHIP	330	5%	1/10W	R8835	1-260-288-11	CARBON	0.47	5%	1/2W
R8171	1-216-825-11	METAL CHIP	2.2K		1/10W	R8842	1-260-328-11	CARBON	1K	5%	1/2W
R8174	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8844	1-216-838-11	METAL CHIP	27K	5%	1/10W
R8175	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R8845	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8176	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8865	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Do											
R8177	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8866	1-216-295-91	SHORT CHIP	0		
R8179	1-216-295-91	SHORT CHIP	0			R8867	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8180	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R8885	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R8181	1-216-295-91	SHORT CHIP	0			R8886	1-208-834-11	METAL CHIP	150K	0.5%	1/10W
R8182	1-216-841-11	METAL CHIP	47K	5%	1/10W	R8887	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8183	1-216-825-11	METAL CHIP	2.2K	50/	1/10W	R8888	1 240 441 11	CARBON	100V	E0/	1 / 411/
R8186	1-216-827-11	METAL CHIP	3.3K		1/10W 1/10W	R8895	1-249-441-11 1-249-443-11	CARBON	100K		1/4W
R8188	1-216-829-11	METAL CHIP	4.7K		1/10W 1/10W	R8896	1-249-443-11	CARBON	0.47		1/4W
R8189	1-216-818-11	METAL CHIP	560	5%	1/10W	R8897			0.47		1/4W
R8190	1-216-825-11	METAL CHIP	2.2K		1/10W	R8898	1-215-489-00	METAL	680K		1/4W
10130	1-210-023-11	METAL CITT	Z.ZN	370	1/10W	KOOYO	1-215-493-00	METAL	1M	1%	1/4W
R8191	1-215-925-11	METAL OXIDE	22K	5%	3W	R8899	1-215-493-00	METAL	1M	1%	1/4W
R8196	1-249-377-11	CARBON	0.47	5%	1/4W						
R8197	1-216-841-11	METAL CHIP	47K	5%	1/10W		< TRANSFO	RMER >			
R8203	1-216-295-91	SHORT CHIP	0								
R8209	1-216-295-91	SHORT CHIP	0			T8801	1-437-430-11	TRANSFORMER,	FERRIT	E (HDI	")
						T8802	1-437-430-11	TRANSFORMER,	FERRIT	E (HDI	
R8210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	T8806	1-437-614-11	TRANSFORMER,	HORIZO:	NTAL C	UTPUT
R8211	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R8212	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	* A-130	0-514-A D2 I	Board, Com	plete		
R8215	1-208-822-11	METAL CHIP	47K	0.5%	1/10W						200000000000000000000000000000000000000
R8216	1-208-822-11	METAL CHIP	47K	0.5%	1/10W			COVER, VOLUME			
							4-382-854-01	SCREW (M3X8),	P, SW	(+)	
R8217	1-216-833-11	METAL CHIP	10K	5%	1/10W		CADA CIM	n n			
R8456	1-216-845-11	METAL CHIP	100K	5%	1/10W		< CAPACITO	JR >			
R8457	1-216-834-11	METAL CHIP	12K		1/10W	60000		197.15			
R8458	1-216-841-11	METAL CHIP	47K		1/10W	C6802			0.01UF		5.00% 50V
R8459	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C6803		CERAMIC CHIP			10.00% 16V
Docas		0.177.5				C6804			680PF		5.00% 100V
R8800	1-247-895-91	CARBON			1/4W	C6805			10UF		20.00% 50V
R8804	1-249-408-11	CARBON	180		1/4W	C6806	1-128-551-11	ELECT	22UF		20.00% 63V
R8805	1-249-408-11	CARBON	180		1/4W						
R8806	1-249-411-11	CARBON	330		1/4W	C6807			0.1UF		5.00% 50V
R8807	1-249-411-11	CARBON	330	5%	1/4W	C6808	1-126-947-11	ELECT	47UF		20.00% 35V



REF.NO.	PART.NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C6809	1-162-966-11	CERAMIC CHIP (0.0022UF	10.00% 50V	D6811	8-719-911-19	DIODE 1SS119-25	
C6810	1-162-115-00		330PF	10.00% 1KV	D6813	8-719-911-19	DIODE 1SS119-25	
C6811	1-162-115-00		330PF	10.00% 1KV	D6814	8-719-982-21	DIODE MTZJ-30C	
C6812	1-135-946-22		47000PF	3% 800V	D6815	8-719-911-19	DIODE 1SS119-25	
C6813	1-126-967-11		47UF	20.00% 50V	D6816	8-719-110-41	DIODE RD15ESB2	
00010	1 120 307 11	LLLOI	17 01	20.00% 501	20020	0 1 10 1 10 1		
C6814	1-126-947-11	ELECT	47UF	20.00% 35V	D6817	8-719-063-73	DIODE D1NL20U-TR	
C6815	1-130-483-00	MYLAR (0.01UF	5.00% 50V	D6820	8-719-921-63	DIODE MTZJ-7.5B	
C6816	1-126-964-11	ELECT	10UF	20.00% 50V	D6821	8-719-110-49	DIODE RD18ESB2	
C6820	1-130-495-00	MYLAR (0.1UF	5.00% 50V	D6822	8-719-063-73	DIODE D1NL20U-TR	
C6821	1-126-964-11	ELECT 1	10UF	20.00% 50V	D6823	8-719-911-19	DIODE 1SS119-25	
00000	1 100 000 11	DI DOT	OOIT	20 000/ 501/	D6824	8-719-911-19	DIODE 1SS119-25	
C6822	1-126-966-11		33UF	20.00% 50V	D6825	8-719-911-19	DIODE 1SS119-25	
C6823	1-126-933-11		100UF	20.00% 16V	D6831	8-719-911-19	DIODE 1SS119-25	
C6824	1-113-610-11		220UF	20% 250V	D6832	8-719-911-19	DIODE 1SS119-25	
C6825	1-130-495-00		0.1UF	5.00% 50V		8-719-911-19	DIODE 133119-23 DIODE ERA22-08	
C6826	1-126-969-11	ELECT 2	220UF	20.00% 50V	D8919	8-719-948-43	DIODE ERAZZ-U8	
C6027	1 127 150 11	FILM	0.01110	5.00% 100V	D8927	8-719-991-33	DIODE 1SS133T-77	
C6827 C6834	1-137-150-11 1-162-970-11	CERAMIC CHIP O	0.01UF	10.00% 25V				
				10.00% 25V 10% 16V		< FERRITE	BEAD >	
C6835	1-127-715-91	CERAMIC CHIP (
C6836 C6837	1-136-165-00 1-136-103-00		0.1UF 0.1UF	5.00% 50V 5.00% 200V	FB6801	1-412-911-11	FERRITE OUH	
00007	1 100 100 00	IIIII (0.101	J. 00% 2007		TC		
C6840	1-130-495-00	MYLAR (0.1UF	5.00% 50V		< IC >		
C6842	1-130-471-00	MYLAR C	0.001UF	5.00% 50V	TCCOOO	0 750 670 20	TC MC72001D	
C6843	1-135-945-22		10000PF	3% 800V	IC6800	8-759-670-30		
C6848	1-126-963-11		4.7UF	20.00% 50V	IC6801	8-759-700-07		
C6849	1-162-962-11	CERAMIC CHIP 4		10.00% 50V	IC6802	8-759-701-01		
00010	1 102 002 11	ODIUMITO OIII	11011	10.00% 001	IC6803		IC TLV431AIDBV	
C6850	1-107-826-11	CERAMIC CHIP O	1IIF	10.00% 16V	IC6807	8-759-586-17	IC TL1431CZ-AP	
C6852	1-162-970-11	CERAMIC CHIP C		10.00% 25V		COTT		
C6853	1-126-933-11		100UF	20.00% 16V		< COIL >		
C8929	1-120-333-11		4.7UF	20.00% 160V			TURNOROR	
			1.70r 0.0022UF	5.00% 630V	L6802		INDUCTOR 107UH	
C8930	1-129-898-00	FILM U	J.UUZZUF	0.00% 030V	L8901	1-406-674-11	INDUCTOR 3.3MH	
C8932	1-136-205-11	MYLAR C	0.022UF	5.00% 630V		< TRANSIS	TOR >	
C8938	1-162-131-11		220PF	10.00% 2KV		11411010	1011	
C8939	1-162-129-00		150PF	10.00% 2KV	Q6801	8-729-901-81	TRANSISTOR 2SC2412K-T-1	146_R
C8944	1-137-150-11		0.01UF	5.00% 100V	06802	8-729-901-81	TRANSISTOR 2SC2412K-T-1	
C8945	1-126-947-11		47UF	20.00% 35V	06803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
00010	1 120 01, 11	BBBCI	1101	20.00% 001	Q6804		TRANSISTOR IRF1644G-LF3	
C8953	1-164-004-11	CERAMIC CHIP O	0.1UF	10.00% 25V	Q6805	8-729-044-42	TRANSISTOR IRF1644G-LF3	
	a con margar	207						_
	< CONNECT	UK >			06807		TRANSISTOR 2SC1623-L5L6	
ONO COO	* 4 040 0=0 5	DI HO CONTINUES	OD OD		06808		TRANSISTOR 2SC1623-L5L6	
		PLUG, CONNECTO			06813		TRANSISTOR 2SB709A-QRS-	-TX
		PLUG (MICRO CO	UNNECTOR)	10P	06814		TRANSISTOR DTC114EK	
CN6803	1-695-915-11	TAB (CONTACT)			Q6815	8-729-424-02	TRANSISTOR 2SB709A-QRS-	-TX
CN6804	* 1-564-506-11	PLUG, CONNECTO	OR 3P		0		mp uvozoman name	
					Q6816		TRANSISTOR DTC114EK	
	< DIODE >				Q6817		TRANSISTOR 2SB709A-QRS-	
					Q8909		TRANSISTOR STP5NB40 (033	BY)
D6800	8-719-052-90	DIODE D1NL40-T	ΓA2		Q8918	1-801-806-11	TRANSISTOR DTC144EKA	
D6801	8-719-110-41	DIODE RD15ESB2						
D6802	8-719-110-41	DIODE RD15ESB2				< RESISTO)R >	
D6803	8-719-911-19	DIODE 1SS119-2						
D6806	8-719-109-85	DIODE RD5.1ESE			JR6814	1-216-864-11	SHORT CHIP 0	
20000	5 .10 100 00	51055 100.110L			JR6895	1-216-864-11		
							1990	



REF.NO.	PART.NO	DESCRIPTION	V		REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R6801 R6802 R6803 R6804 R6805	1-216-841-11 1-216-849-11 1-216-829-11 1-216-829-11 1-215-481-00	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL	47K 220K 4.7K 4.7K 330K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	R6875 R6876 R6877 R6878 R6880	1-216-863-11 1-215-485-00 1-215-485-00 1-216-821-11 1-219-751-51	METAL CHIP METAL METAL CHIP METAL	3.3M 470K 470K 1K 47K	1%	1/10W 1/4W 1/4W 1/10W 1/2W
R6806 R6807 R6808 R6809 R6810	1-215-481-00 1-215-481-00 1-211-981-11 1-218-823-11 1-249-417-11	METAL METAL METAL CHIP METAL CHIP CARBON	330K 330K 33 100 1K	1% 0.5%	1/4W 1/4W 1/10W 1/10W 1/4W	R6881 R6882 R6883 R6884 R6885	1-219-749-51 1-216-841-11 1-211-985-11 1-218-874-11 1-216-841-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 47K 47 13K 47K		1/2W 1/10W 1/10W 1/10W 1/10W
R6811 R6812 R6813 R6814 R6815	1-202-933-61 1-218-869-11 1-249-393-11 1-249-393-11 1-216-833-11	FUSIBLE METAL CHIP CARBON CARBON METAL CHIP	0.1 8.2K 10 10 10K	10% 0.5% 5% 5% 5%	1/2W 1/10W 1/4W 1/4W 1/10W	R6887 R6894 R6896 R6897 R8949	1-249-411-11 1-216-840-11 1-216-839-11 1-216-853-11 1-216-486-21	CARBON METAL CHIP METAL CHIP METAL CHIP METAL OXIDE	330 39K 33K 470K 8.2K	5% 5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 3W
R6816 R6817 R6818 R6820 R6821	1-216-833-11 1-243-979-21 1-249-389-11 1-216-837-11 1-216-837-11	METAL CHIP METAL OXIDE CARBON METAL CHIP METAL CHIP	10K 0.1 4.7 22K 22K	5% 5% 5% 5% 5%	1/10W 2W 1/4W 1/10W 1/10W	R8950 R8951 R8952 R8954 R8955	1-215-923-00 1-216-486-21 1-215-923-00 1-260-123-11 1-260-123-11	METAL OXIDE METAL OXIDE METAL OXIDE CARBON CARBON			3W 3W 1/2W 1/2W
R6823 R6825 R6827 R6828 R6829	1-247-843-11 1-218-912-11 1-218-893-11 1-218-895-11 1-216-841-11	CARBON METAL CHIP METAL CHIP METAL CHIP METAL CHIP	82K	0.5% 0.5%	1/4W 1/10W 1/10W 1/10W 1/10W	R8956 R8957 R8988 R8989 R8990	1-260-123-11 1-216-829-11 1-260-123-11 1-249-429-11 1-216-840-11	CARBON METAL CHIP CARBON CARBON METAL CHIP	100K 4.7K 100K 10K 39K	5%	1/2W 1/10W 1/2W 1/4W 1/10W
R6832 R6833 R6834 R6835	1-216-841-11 1-216-833-11 1-216-821-11	METAL CHIP METAL CHIP METAL CHIP	47K 10K 1K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W	R8991	1-216-834-11 < RESISTO	METAL CHIP R VARIABLE >	12K	5%	1/10W
R6836	1-215-433-00 1-215-447-00	METAL METAL		1%	1/4W 1/4W	RV6800	1-241-763-11	RES, ADJ, CER	WET 4.7	7K	
R6837 R6838	1-215-447-00 1-215-447-00	METAL METAL	12K 12K	1% 1%	1/4W 1/4W		< SPARK G	NP >			
R6839 R6840	1-215-447-00 1-535-303-00	METAL LEAD, JUMPER	12K	1%	1/4W	SG6800	1-517-499-21	GAP, SPARK			
R6841	1-218-847-11	METAL CHIP			1/10W		< TRANSFOR	RMER >			
R6843 R6844 R6845	1-218-845-11 1-218-875-11 1-218-855-11	METAL CHIP METAL CHIP METAL CHIP	15K	0.5%	1/10W 1/10W 1/10W	T6800 £ T8901	1-453-444-11 1-437-690-11				(NX-6020//Z2B4)
R6846 R6847	1-218-868-11 1-218-847-11	METAL CHIP METAL CHIP		0.5%	1/10W 1/10W 1/10W	* A-1300 * A-1300 * A-1300	-172-A AB	oard, Comple oard, Comple oard, Comple	ete (K	V-32F	Q70E/32FQ70K)
R6848 R6852	1-216-817-11 1-216-845-11	METAL CHIP METAL CHIP	470 100K	5% 5%	1/10W 1/10W	A Board	d, Common P				
R6865 R6867	1-216-835-11	METAL CHIP	15K	5%	1/10W		4-382-854-01	SCREW (M3X8),	P, SW	(+)	
R6868	1-216-797-11	METAL CHIP	100 10		1/10W 1/10W		< CAPACITO	, , ,		. /	
R6869 R6870 R6872 R6873 R6874	1-249-431-11	METAL CHIP METAL CHIP CARBON CARBON METAL CHIP	220K 0.47 15K	5% 5% 5%	1/10W 1/10W 1/4W 1/4W 1/10W	C1001 C1002 C1004 C1006	1-126-964-11 1-163-021-91	ELECT CERAMIC CHIP (100UF 10UF 1.01UF 1.00UF	1	20.00% 16V 20.00% 50V 10.00% 50V 20.00% 16V



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C1008	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2054	1-126-947-11	ELECT 47UF	20.00% 35V
C1009	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2055	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1010	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2057	1-126-964-11	ELECT 10UF	20.00% 50V
C1014	1-126-933-11	ELECT 100UF	20.00% 16V	C2058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2059	1-126-964-11	ELECT 10UF	20.00% 50V
C1018	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C2060	1-126-947-11	ELECT 47UF	20.00% 35V
C1020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2061	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1021	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2062	1-164-346-11	CERAMIC CHIP 1UF	16V
C1022	1-216-295-91	SHORT CHIP 0		C2063	1-164-346-11	CERAMIC CHIP 1UF	16V
C2000	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2064	1-126-964-11	ELECT 10UF	20.00% 50V
C2001	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2065	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2006	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2066	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2007	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2069	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C2007	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C2073	1-126-960-11	ELECT 1UF	20.00% 50V
C2009	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2074	1-126-960-11	ELECT 1UF	20.00% 50V
02003	1-103-021-31		10.00% 307	02011	1-120 000-11		20.00% 30 (
C2010	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C2075	1-126-960-11	ELECT 1UF	20.00% 50V
C2011	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2077	1-126-960-11	ELECT 1UF	20.00% 50V
C2012	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2078	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2013	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2079	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2014	1-164-346-11	CERAMIC CHIP 1UF	16V	C2080	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2081	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V
C2016	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2082	1-216-864-11	SHORT CHIP 0	
C2018	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2083	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2019	1-164-346-11	CERAMIC CHIP 1UF	16V	C2084	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2021	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2085	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
02021	1 102 002 11	Oblumito omi 17011	10.00% 007	02000	1 100 021 01	oblumito onii o.oroi	10.00% 007
C2022	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2086	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2023	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2087	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2024	1-164-346-11	CERAMIC CHIP 1UF	16V	C2088	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2089	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2027	1-126-947-11	ELECT 47UF	20.00% 35V	C2090	1-126-947-11	ELECT 47UF	20.00% 35V
C2028	1-126-947-11	ELECT 47UF	20.00% 35V	C2091	1-126-947-11	ELECT 47UF	20.00% 35V
C2029	1-164-346-11	CERAMIC CHIP 1UF	16V	C2092	1-126-947-11	ELECT 47UF	20.00% 35V
C2031	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2093	1-126-947-11	ELECT 47UF	20.00% 35V
C2034	1-164-346-11	CERAMIC CHIP 1UF	16V	C2094	1-126-947-11	ELECT 47UF	20.00% 35V
C2035	1-164-346-11	CERAMIC CHIP 1UF	16V	C2095	1-126-947-11	ELECT 47UF	20.00% 35V
C2038	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C2096	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2039	1-162-976-11	CERAMIC CHIP 1.5PF	0.25PF 50V	C2500	1-102-370-11	ELECT 1000UF	20.00% 35V
C2039	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C2502	1-104-666-11	ELECT 220UF	20.00% 35V 20.00% 25V
		CERAMIC CHIP 0.0010F	0.25PF 50V	C2502	1-164-222-91	CERAMIC CHIP 0.22UF	
C2041	1-162-906-11 1-216-864-11	SHORT CHIP 0	U. ZJIT JUV	C2504	1-104-222-31	CERAMIC CHIP 0.1UF	25V 10.00% 50V
C2042	1-210-804-11	SHUKI CHIP U		62303	1-110-559-11	CERANIC CHIF U.IUF	10.00% 307
C2043	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2506	1-126-972-11	ELECT 1000UF	20.00% 50V
C2044	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2507	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2046	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	C2508	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2047	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2509	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2048	1-126-947-11	ELECT 47UF	20.00% 35V	C2510	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C2049	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2511	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2050	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C2512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2051	1-126-964-11	ELECT 10UF	20.00% 50V	C2513	1-126-952-11	ELECT 1000UF	20.00% 35V
C2052	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2515	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C2053	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V	C2516	1-126-953-11	ELECT 2200UF	20.00% 35V



REF.NO.	PART.NO	DESCRIPTION		REM	ARK	REF.NO.	PART.NO	DESCRIPTION	N	REN	MARK
C2517	1-126-960-11	ELECT	1UF	20.00%	50V	C5106	1-126-933-11	ELECT	100UF	20.00%	6 16V
C2518	1-126-960-11		1UF	20.00%		C5109	1-126-964-11	ELECT	10UF	20.00%	
C2519	1-126-959-11		0.47UF	20.00%		C5110	1-126-947-11	ELECT	47UF	20.00%	
C2521	1-164-489-11	CERAMIC CHIP		10.00%		C5110	1-126-964-11	ELECT	10UF		
C2523	1-115-339-11	CERAMIC CHIP				C5111 C5112				20.00%	
02323	1-113-339-11	CERANIC CHIP	0.101	10.00%	30 V	C311Z	1-126-964-11	ELECT	10UF	20.00%	5UV
C3200	1-126-964-11	ELECT	10UF	20.00%	50V	C5114	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3202	1-104-666-11	ELECT	220UF	20.00%	25V	C5115	1-126-964-11	ELECT	10UF	20.00%	50V
C3203	1-126-964-11	ELECT	10UF	20.00%	50V	C5117	1-126-964-11	ELECT	10UF	20.00%	50V
C3206	1-126-964-11	ELECT	10UF	20.00%	50V	C5118	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3208	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V	C5119	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	
C3209	1-163-235-11	CERAMIC CHIP	22DF	5.00%	50V	C5120	1-165-176-11	CERAMIC CHIP	0 047IIE	10.00%	1 <i>C</i> V
C3210	1-126-964-11		10UF	20.00%							
						C5121	1-165-176-11	CERAMIC CHIP		10.00%	
C3211	1-126-964-11		10UF	20.00%		C5122	1-164-156-11	CERAMIC CHIP			25V
C3213	1-164-222-91	CERAMIC CHIP			25V	C5124	1-164-156-11	CERAMIC CHIP		00 000	25V
C3214	1-164-222-91	CERAMIC CHIP	U.ZZUF		25V	C5125	1-126-964-11	ELECT	10UF	20.00%	50V
C3215	1-164-222-91	CERAMIC CHIP			25V	C5300	1-126-933-11	ELECT	100UF	20.00%	16V
C3216	1-164-222-91	CERAMIC CHIP (25V	C5301	1-126-947-11	ELECT	47UF	20.00%	35V
C3217	1-164-222-91	CERAMIC CHIP (0.22UF		25V	C5302	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C3218	1-164-222-91	CERAMIC CHIP (0.22UF		25V	C5303	1-136-153-00	FILM	0.01UF	5.00%	50V
C3219	1-164-222-91	CERAMIC CHIP (0.22UF		25V	C5304	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C3220	1-164-222-91	CERAMIC CHIP (0 22IIF		25V	C5305	1-165-176-11	CERAMIC CHIP	0 047115	10.00%	16V
C3221	1-164-222-91	CERAMIC CHIP (25V	C5306	1-164-156-11	CERAMIC CHIP		10.00%	25V
C3222	1-164-222-91	CERAMIC CHIP (25V	C5307	1-164-156-11	CERAMIC CHIP			25V
C3223	1-164-222-91	CERAMIC CHIP (25V	C5309	1-162-927-11	CERAMIC CHIP		5.00%	
C3224	1-164-222-91	CERAMIC CHIP (25V	C5310	1-136-165-00	FILM	0.1UF	5.00%	
	1 101 222 31	CLIVIII CIIII	0.2201		231	03310	1-130-103-00	LITM	U. TUF	J. 00%	30 V
C3225	1-164-222-91	CERAMIC CHIP (0.22UF		25V	C5311	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3226	1-164-222-91	CERAMIC CHIP (0.22UF		25V	C5312	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C3227	1-164-222-91	CERAMIC CHIP (0.22UF		25V	C5313	1-107-714-11	ELECT	10UF	20.00%	50V
C3228	1-164-489-11	CERAMIC CHIP (0.22UF	10.00%	16V	C5314	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C3229	1-164-489-11	CERAMIC CHIP (0.22UF	10.00%	16V	C5316	1-164-230-11	CERAMIC CHIP	220PF	5.00%	
C3230	1-164-489-11	CERAMIC CHIP () 22IIF	10.00%	16V	C5318	1-164-156-11	CERAMIC CHIP	0 1115		25V
C3231	1-164-489-11	CERAMIC CHIP (10.00%		C5319	1-136-347-11	FILM	0.0047UF	5.00%	
C3232	1-164-489-11	CERAMIC CHIP O		10.00%		C5320	1-129-716-00		0.015UF	5.00%	
C3233	1-164-489-11	CERAMIC CHIP C		10.00%		C5321	1-136-347-11		0.0047UF	5.00%	
C3234	1-164-489-11	CERAMIC CHIP C		10.00%		C5322	1-164-156-11	CERAMIC CHIP			25V
							1 101 100 11	OBIGINIO OIII	0.101		201
C3235	1-165-176-11	CERAMIC CHIP C		10.00%		C5323	1-136-159-00	FILM	0.033UF	5.00%	50V
C3236	1-165-176-11	CERAMIC CHIP O		10.00%	16V	C5400	1-126-964-11	ELECT	10UF	20.00%	50V
C3237	1-165-176-11	CERAMIC CHIP O		10.00%	16V	C5401	1-107-714-11	ELECT	10UF	20.00%	50V
C3238	1-165-176-11	CERAMIC CHIP O).047UF	10.00%	16V	C5403	1-128-527-11	ELECT	330UF	20.00%	25V
C3239	1-165-176-11	CERAMIC CHIP O	0.047UF	10.00% 1	16V	C5404	1-102-228-00	CERAMIC	470PF	10.00%	500V
C3240	1-165-176-11	CERAMIC CHIP O) 047UF	10.00% 1	16V	C5405	1-163-021-91	CERAMIC CHIP	0 0111F	10.00%	50V
C3241	1-126-933-11		00UF	20.00% 1		C5406	1-129-702-00	MYLAR	0.001UF	10.00%	
C3242	1-162-970-11	CERAMIC CHIP O		10.00% 2		C5407	1-128-527-11	ELECT	330UF	-20.00%	
C3243	1-164-222-91	CERAMIC CHIP O			25V 25V	C5407	1-126-968-11	ELECT	100UF	20.00%	
C3245	1-163-251-11	CERAMIC CHIP 1		5.00% 5		C5409 C5410	1-120-908-11	CERAMIC CHIP		10.00%	
ULTU	1 100-201-11	OPMANITO OIII I	OOT I.	J.UU/0 C	JU V	01110	1-100-021-31	CENAMIC CUIT	U.UIUF	10.00%	JU V
C3250	1-163-021-91	CERAMIC CHIP O		10.00% 5		C5411	1-137-401-11		0.22UF	5.00%	
C3300	1-163-251-11	CERAMIC CHIP 1		5.00% 5		C5412	1-106-220-00		0.1UF	10.00%	
C3309	1-126-964-11		OUF	20.00% 5		C5413	1-130-785-11		0.47UF	5.00%	
C3310	1-164-222-91	CERAMIC CHIP O			25V	C5414	1-126-964-11	ELECT	10UF	20.00%	
C5103	1-126-960-11	ELECT 1	UF	20.00% 5	50V	C5801	1-126-963-11	ELECT	4.7UF	20.00%	50V



REF.NO.	PART.NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C5850	1-126-963-11	ELECT	4 7IF	20.00% 50V	C7050	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C5851	1-107-826-11	CERAMIC CHIP		10.00% 16V	C7051	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5854	1-107-826-11	CERAMIC CHIP		10.00% 16V	C7051	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5858	1-107-826-11	CERAMIC CHIP		10.00% 16V 10.00% 16V	C7053	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5859	1-126-960-11	ELECT	1UF	20.00% 50V	C7054	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5860	1-165-176-11	CERAMIC CHIP		10.00% 16V	C7055	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5868	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C7056	1-126-933-11	ELECT 100UF	20.00% 16V
C5873	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	C7057	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5888	1-164-156-11	CERAMIC CHIP	0.1UF	25V	C7058	1-126-933-11	ELECT 100UF	20.00% 16V
C5889	1-126-964-11	ELECT	10UF	20.00% 50V	C7059	1-126-933-11	ELECT 100UF	20.00% 16V
C5890	1-164-227-11	CERAMIC CHIP	0.022UF	10.00% 25V	C7060	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5891	1-137-581-11		0.1UF	5.00% 100V	C7061	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5892	1-107-826-11	CERAMIC CHIP		10.00% 16V	C7062	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5893	1-126-947-11		47UF	20.00% 35V	C7063	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5894	1-126-947-11		47UF	20.00% 35V	C7064	1-126-947-11	ELECT 47UF	20.00% 35V
03034	1-120-341-11	LLLO1	4701	20.00% 337	01001	1-120-541-11	LLLC1 47 01	20.00% 33
C5895	1-164-156-11	CERAMIC CHIP	0.1UF	25V	C7065	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5896	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V	C7067	1-126-947-11	ELECT 47UF	20.00% 35V
C5897	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V	C7068	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5898	1-162-964-11	CERAMIC CHIP	0.001UF	10.00% 50V	C7069	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C5899	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	C7070	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C6200	1-126-933-11	ELECT	100UF	20.00% 16V	C7071	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C6201	1-126-935-11		470UF	20.00% 16V				
C6202	1-126-933-11		100UF	20.00% 16V		< CONNECT	OR >	
C6203	1-126-935-11		470UF	20.00% 16V		Odividor		
C6204	1-126-933-11		100UF	20.00% 16V	CN0101	* 1_823_330_11	CONNECTOR, BOARD TO BO	NARD AND
00201	1 120 000 11	DDDC1	10001	20.00/0 101	CN0102	* 1-564-520-11		Orlido Tot
C6205	1-126-935-11	ELECT	470UF	20.00% 16V	CN0103	* 1-817-035-61		
C6206	1-126-933-11		100UF	20.00% 16V	CN1000		CONNECTOR (SQUARE TYPE)) 21P
C6207	1-126-933-11		100UF	20.00% 16V	CN1000	* 1-766-296-21	, -	, 211
C6208	1-126-933-11		100UF	20.00% 16V	CNIUUI	1-700-250-21	COMMECTOR, DUAL SCART	
C6209	1-126-933-11		100UF	20.00% 16V	CN2000	* 1 56/ 512 11	PLUG, CONNECTOR 9P	
00203	1-120-333-11	LLLUI .	10001	20.00% 10	CN2500		PLUG. CONNECTOR 3P	
C6210	1-126-935-11	EI ECT	470UF	20.00% 16V			PLUG, CONNECTOR 4P	
					CN2501 CN2502		PLUG, CONNECTOR 6P	
C6211	1-126-947-11 1-126-933-11		47UF	20.00% 35V		* 1-816-977-51		
C6212			100UF	20.00% 16V	CN5002	* 1-816-984-71	PLUG, CONNECTOR 7P	
C6213	1-126-933-11		100UF	20.00% 16V	CNE 100	* 1 010 07/ 51	DITIC COMMECTOD OD	
C6214	1-126-933-11	ELECT	100UF	20.00% 16V	CN5100	* 1-816-974-51	PLUG, CONNECTOR 3P	TVDE\ 1 OD
07000	1 100 047 11	EI ECT	47III:	20 000/ 257	CN5801	1-764-333-11	PIN, CONNECTOR (PCB) (V	
C7002	1-126-947-11		47UF	20.00% 35V	CN5802	* 1-691-772-11	PLUG (MICRO CONNECTOR)	101
C7004	1-164-222-91	CERAMIC CHIP		25V	CN6200	* 1-564-507-11	PLUG, CONNECTOR 4P	
C7008	1-162-919-11	CERAMIC CHIP		5.00% 50V	CN6202	* 1-564-516-11	PLUG, CONNECTOR 13P	
C7016	1-107-823-11	CERAMIC CHIP (10.00% 16V			m. n. (000m) 0m)	
C7018	1-164-004-11	CERAMIC CHIP (0.1UF	10.00% 25V	CN6203	1-695-915-11	TAB (CONTACT)	
					CN7000	* 1-817-042-81	PLUG, CONNECTOR 5P	
C7019	1-164-004-11	CERAMIC CHIP (10.00% 25V	CN7001	* 1-564-512-11		
C7020	1-164-004-11	CERAMIC CHIP (0.1UF	10.00% 25V	CN8001	1-766-281-11	PIN, CONNECTOR (PC BOAL	RD) 8P
C7021	1-164-004-11	CERAMIC CHIP (0.1UF	10.00% 25V				
C7022	1-164-004-11	CERAMIC CHIP (0.1UF	10.00% 25V		< DIODE >		
C7023	1-164-004-11	CERAMIC CHIP (0.1UF	10.00% 25V	D0101	0 710 001 00	DIODE 181771 402	
00000	1 101 001 11	OPPLIES OFF	0 1111	10,000/ 051	D0101	8-719-921-88	DIODE MIZJ-13B	
C7030	1-164-004-11	CERAMIC CHIP (10.00% 25V	D0104	8-719-109-89	DIODE RD5.6ESB2	
C7031	1-164-004-11	CERAMIC CHIP (10.00% 25V	D0110	8-719-109-89	DIODE RD5.6ESB2	
C7032	1-164-004-11	CERAMIC CHIP (10.00% 25V	D0111	8-719-929-15	DIODE HZS9.1NB2	
C7038	1-107-823-11	CERAMIC CHIP (10.00% 16V	D0112	8-719-921-88	DIODE MTZJ-13B	
C7039	1-162-966-11	CERAMIC CHIP (0.0022UF	10.00% 50V				



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D0113	8-719-921-88	DIODE MTZJ-13B		D5813	8-719-081-97	DIODE MMDL914T1	
D1006	8-719-109-89	DIODE RD5.6ESB2		D5814	1-216-295-91	SHORT CHIP 0	
D2014	8-719-929-15	DIODE HZS9.1NB2		D6200	8-719-063-70	DIODE D1NL20U	
D2014	8-719-929-15			1 0 0 0			
		DIODE HZS9.1NB2		D7004	8-719-929-15	DIODE HZS9.1NB2	50/ 4 /4 0111
D2016	8-719-050-38	DIODE M1MA152WK-T1		D7006	1-216-809-11	METAL CHIP 100	5% 1/10W
D2018	8-719-929-15	DIODE HZS9.1NB2			< FERRITI	E BEAD >	
D2019	8-719-929-15	DIODE HZS9.1NB2					
D2500	8-719-050-38	DIODE M1MA152WK-T1		FB3001	1-414-760-21	FERRITE OUH	
D2502	8-719-109-89	DIODE RD5.6ESB2					
D2503	8-719-050-38	DIODE M1MA152WK-T1			< FILTER	>	
D3001	8-719-929-15	DIODE HZS9.1NB2		FL2000	1-239-803-11	FILTER. EMI	
D3003	8-719-929-15	DIODE HZS9.1NB2			1 200 000 11	TIDIDIT, DILI	
D3005	8-719-929-15	DIODE HZS9.1NB2			< IC >		
D3007	8-719-109-89	DIODE RD5.6ESB2			100		
D3008	8-719-109-89	DIODE RD5.6ESB2		IC2000	6 701 021 11	IC MSP3411G-QA-B11	
מטטטע	0-713-103-03	DIODE RDJ. OESDZ		IC2000 IC2001			
D3009	8-719-929-15	DIODE HZS9.1NB2			8-759-100-96		
D3009				IC2500	8-759-831-56		
	8-719-929-15	DIODE HZS9.1NB2		IC3200		IC VSP9407B-B11-GEG	
D3013	8-719-929-15	DIODE HZS9.1NB2		IC5102	8-759-325-48	1C CA0005AD	
D3015	8-719-929-15	DIODE HZS9.1NB2					
D3017	8-719-109-89	DIODE RD5.6ESB2		IC5103		IC CXA1875AM-T4	
				IC5104	8-759-803-42	IC LA6500-FA	
D3018	8-719-109-89	DIODE RD5.6ESB2		IC5300	8-759-008-70	IC LM358N	
D3019	8-719-929-15	DIODE HZS9.1NB2		IC5301	8-759-659-67	IC LA6393DLL	
D3021	8-719-929-15	DIODE HZS9.1NB2		IC5302	8-759-659-67	IC LA6393DLL	
D3023	8-719-109-89	DIODE RD5.6ESB2					
D3024	8-719-929-15	DIODE HZS9.1NB2		IC5400	8-759-696-71	IC STV9379A	
				IC6200		IC L7809CV/LSY	
D3026	8-719-929-15	DIODE HZS9.1NB2		IC6201		IC L7805CV/LSY	
D3028	8-719-929-15	DIODE HZS9.1NB2		IC6202	8-759-445-59		
D3201	8-719-109-89	DIODE RD5.6ESB2		IC6203	8-759-098-24		
D5101	8-719-050-38	DIODE M1MA152WK-T1		100200	0-133-030-24	10 10301011	
D5101	8-719-110-86	DIODE RD39ESB		IC6204	0 750 501 02	IC L78L33ABZ-AP	
D0100	0-715-110-00	DIODE ROSSESD		IC6204			
D5104	8-719-109-89	DIODE RD5.6ESB2			8-759-394-35		
D5300				IC6206	8-759-991-41		
	8-719-081-97	DIODE MADL914T1		IC7002	8-752-090-88	IC CXA2100AQ-TL	
D5303	8-719-081-97	DIODE MMDL914T1			O O O O Y TOTAL		
D5304	8-719-081-97	DIODE MMDL914T1			< SOCKET :	>	
D5305	8-719-991-33	DIODE 1SS133T-77		J2000	1-784-632-11	TACK PIN 2P	
D5306	8-719-302-43	DIODE EL1Z		32000	1 101 002 11	J. 1011, 1111 L1	
D5307	8-719-987-87	DIODE ERA85-009			< COIL >		
D5309	8-719-081-97	DIODE MMDL914T1			< COIL >		
D5310	8-719-081-97	DIODE MMDL914T1		L1000	1-412-987-31	INDUCTOR 4.7UF	I
D5400	8-719-982-03	DIODE MIZJ-3.6A		L1001			
DJTOU	0-113-302-03	DIODE MILJ-3. UK				INDUCTOR 4.7UF	1
DE 401	0 710 050 20	DIODE WIWAIFOUN TI		L1002		INDUCTOR 10UH	
D5401	8-719-050-38	DIODE M1MA152WK-T1		L1003		INDUCTOR 10UH	
D5404	8-719-110-41	DIODE RD15ESB2		L1005	1-414-934-21	INDUCTOR 10UH	
D5405		DIODE GPO8D					
D5406		DIODE MMDL914T1		L2000	1-414-934-21	INDUCTOR 10UH	
D5407	8-719-081-97	DIODE MMDL914T1		L2001	1-414-934-21	INDUCTOR 10UH	
				L2007	1-535-303-00	LEAD, JUMPER (5.0MM	ſ)
D5804	8-719-109-89	DIODE RD5.6ESB2		L2008	1-216-295-91	SHORT CHIP 0	
D5807	8-719-929-15	DIODE HZS9.1NB2		L2009	1-216-295-91	SHORT CHIP 0	
D5809		DIODE M1MA152WK-T1					
D5811		DIODE MMDL914T1		L2010	1-414-928-21	INDUCTOR 1UH	
D5812		DIODE MMDL914T1		L2010		INDUCTOR 10UH	
			I	DE 0 1 E	111 001 61	110001011 10011	

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

EF.NO.	PART.NO	DESCRIPTION	REMARK	 REF.NO.	PART.NO	DESCRIPTI	ON	REMARK
L2014	1-408-602-31	INDUCTOR	8.2UH	Q2503	8-729-010-29	TRANSISTOR	MSD601-RST1	
2500	1-535-303-00	LEAD, JUMPER	(5.0MM)	02504	8-729-010-05	TRANSISTOR	MSB709-RT1	
2501	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q3200	8-729-010-29		MSD601-RST1	
		SHORT CHIP		Q3200 Q3201	8-729-010-29		MSD601-RST1	
3000	1-216-295-91		0					
3004	1-216-295-91	SHORT CHIP	0	Q3202	8-729-010-05	TRANSISTOR	W2R108-K11	
3005	1-216-295-91	SHORT CHIP	0	Q3204	8-729-010-05	TRANSISTOR	MSB709-RT1	
3006	1-216-295-91	SHORT CHIP	0	Q3300	8-729-010-05	TRANSISTOR		
3007	1-216-295-91	SHORT CHIP	0	Q3301	8-729-010-05	TRANSISTOR		
				-	8-729-010-05	TRANSISTOR		
800	1-216-295-91	SHORT CHIP	0	Q3302				
009	1-216-295-91	SHORT CHIP	0	Q3500	8-729-028-28	1KAN51510K	2SK2036 (TE85L)	
010	1-216-295-91	SHORT CHIP	0	Q3501	8-729-028-28	TRANSISTOR	2SK2036 (TE85L)	
011	1-216-295-91	SHORT CHIP	0	Q5100	8-729-010-05	TRANSISTOR		
012	1-216-295-91	SHORT CHIP	0	Q5101	8-729-010-29		MSD601-RST1	
					8-729-010-29		MSD601-RST1	
3200	1-412-006-31	INDUCTOR	10UH	Q5300				
3202	1-412-006-31	INDUCTOR	10UH	Q5301	8-729-053-33	TRANSISTOR	1KF614-U37	
203	1-412-006-31	INDUCTOR	10UH	Q5302	8-729-140-97	TRANSISTOR	2SB734-34	
3206	1-412-006-31	INDUCTOR	10UH	Q5303	8-729-010-29	TRANSTSTOR	MSD601-RST1	
208	1-412-006-31	INDUCTOR	10UH	Q5304	8-729-010-29		MSD601-RST1	
				,				
300	1-412-006-31	INDUCTOR	10UH	Q5305	8-729-119-78		2SC2785-HFE	
300	1-406-989-21	INDUCTOR	10MH	Q5306	8-729-140-97	TRANSISTOR	2SB/34-34	
301	1-406-989-21	INDUCTOR	10MH	Q5307	8-729-010-05	TRANSISTOR	MSB709-RT1	
5400	1-412-524-11	INDUCTOR	8.2UH	05400	8-729-010-29		MSD601-RST1	
896	1-216-864-11	SHORT CHIP	0.2011	Q5401	8-729-421-19	TRANSISTOR		
5897	1-216-864-11	SHORT CHIP	0	Q5402	8-729-010-05	TRANSISTOR		
5898	1-414-934-21	INDUCTOR	10UH	Q5403	8-729-421-19	TRANSISTOR	UN2213	
5899	1-414-934-21	INDUCTOR	10UH	Q5404	8-729-926-76	TRANSISTOR	IRF620	
7001	1-414-934-21	INDUCTOR	10UH	Q5813	8-729-421-19	TRANSISTOR		
7009	1-414-934-21	INDUCTOR	10UH	Q5814	8-729-010-05	TRANSISTOR		
7010	1-414-934-21	INDUCTOR	10UH	Q5815	8-729-010-29		MSD601-RST1	
011	1-414-934-21	INDUCTOR	10UH	Q5816	8-729-010-05	TRANSISTOR	W2R408-K11	
7012	1-414-934-21	INDUCTOR	10UH	Q6201	8-729-140-97	TRANSISTOR	2SB734-34	
				07003	8-729-010-29		MSD601-RST1	
	- PROTECT	OR MODULE >		Q7009	8-729-010-05	TRANSISTOR		
	< TROTLOT	OK MODULE >		Q7003 Q7011	8-729-010-05	TRANSISTOR		
0001 C	1 500 507 01	TO LIMIT	r.i					
ZOULI	1-533-597-31	IC LINK	5A	Q7012	8-729-010-05	TRANSISTOR	M2D1U9-K11	
	< TRANSIS	TOR >		Q7013	8-729-010-29	TRANSISTOR	MSD601-RST1	
				07014	8-729-010-05	TRANSISTOR	MSB709-RT1	
.000	8-729-010-05	TRANSISTOR MSI	3709-RT1	07015	8-729-010-05	TRANSISTOR		
001	8-729-010-29	TRANSISTOR MSI		Q7016	8-729-010-29		MSD601-RST1	
				Q7010 Q7017		TRANSISTOR		
.004	8-729-010-05	TRANSISTOR MSI		ITUIY	8-729-010-05	11/4//91210K	MDD103-K11	
005	8-729-421-19	TRANSISTOR UNZ		07010	0.700.000.00	mp and conce	HODGOC PO-	
006	8-729-010-05	TRANSISTOR MSI	3709-KI1	07018	8-729-010-05	TRANSISTOR		
				Q7019	8-729-010-29	TRANSISTOR	MSD601-RST1	
000	8-729-010-29	TRANSISTOR MSI	0601-RST1					
001	8-729-010-29	TRANSISTOR MSI	0601-RST1		< RESISTO	IR >		
002	8-729-010-29	TRANSISTOR MSI						
003	8-729-010-29	TRANSISTOR MSI		JR121	1-216-864-11	SHORT CHIP	0	
					1-216-864-11	SHORT CHIP		
004	8-729-010-29	TRANSISTOR MSI	1101-1001	JR123			0	
005	0.500	mp ilica omas	2004 POT	JR2000	1-216-295-91	SHORT CHIP	0	
005	8-729-010-29	TRANSISTOR MSI		D0101	1 216 022 11	METAL CITE	10V EW	1 /10W
501	8-729-010-29	TRANSISTOR MSI		R0101	1-216-833-11			1/10W
502	8-729-010-29	TRANSISTOR MSI	1601-KS11	R0102	1-216-827-11	METAL CHIP	3.3K 5%	1/10W



REF.NO.	PART.NO	DESCRIPTION	l		REMARK	REF.NO.	PART.NO	DESCRIPTION	<u> </u>		REMARK
R0103	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2056	1-216-037-00	RES-CHIP	330	5%	1/10W
R0104	1-216-827-11	METAL CHIP	3.3K		1/10W	R2057	1-216-025-11	RES-CHIP	100	5%	1/10W
R0105	1-216-025-11	RES-CHIP	100	5%	1/10W	R2058	1-216-025-11	RES-CHIP			
R0107	1-216-025-11	RES-CHIP	100	5%	1/10W				100	5%	1/10W
R1000	1-216-049-11	RES-CHIP	100 1K			R2059	1-216-829-11	METAL CHIP	4.7K		1/10W
K1000	1-210-049-11	KES-UIIT	IN	5%	1/10W	R2060	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1001	1-216-001-00	RES-CHIP	10	5%	1/10W	R2061	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2062	1-216-829-11	METAL CHIP	4.7K		1/10W
R1003	1-216-809-11	METAL CHIP	100	5%	1/10W	R2063	1-216-829-11	METAL CHIP	4.7K		1/10W
R1004	1-216-809-11	METAL CHIP	100	5%	1/10W	R2064	1-249-425-11	CARBON	4.7K		1/4W
R1005	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2065	1-216-837-11	METAL CHIP	22K	5%	1/10W
						112000	1 210 001 11	METAL CHI	2211	370	17 1011
R1006	1-216-051-00	RES-CHIP	1.2K		1/10W	R2066	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1007	1-412-987-31	INDUCTOR	4.7UF	ł		R2067	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1008	1-216-295-91	SHORT CHIP	0			R2068	1-216-049-11	RES-CHIP	1 K	5%	1/10W
R1009	1-216-295-91	SHORT CHIP	0			R2069	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1010	1-216-295-91	SHORT CHIP	0			R2070	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1014	1-216-295-91	SHORT CHIP	0			D0071	1 010 000 11	MPTAL CUIT	0.017	F0/	1/100
R1017	1-216-822-11	METAL CHIP	1.2K	50/	1/10W	R2071	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1019	1-216-295-91	SHORT CHIP	0	J/0	1/10W	R2072	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1019				Γ0/	1 /100	R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W
	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2074	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1022	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2075	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1023	1-216-849-11	METAL CHIP	220K	5%	1/10W	R2076	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1024	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2077	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1025	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2078	1-216-025-11	RES-CHIP	100	5%	1/10W
R1026	1-216-817-11	METAL CHIP	470	5%	1/10W	R2079	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2009	1-216-817-11	METAL CHIP	470	5%	1/10W	R2080	1-218-867-11	METAL CHIP			
1000	1 210 017 11	MDITED CHIT	110	070	17 1011	NZUOU	1-210-007-11	MEIAL CHIP	0.01	0.3%	1/10W
R2010	1-216-817-11	METAL CHIP	470	5%	1/10W	R2081	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2011	1-216-049-11	RES-CHIP	1 K	5%	1/10W	R2082	1-216-805-11	METAL CHIP	47	5%	1/10W
R2014	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2083	1-216-817-11	METAL CHIP	470	5%	1/10W
R2015	1-216-295-91	SHORT CHIP	0			R2084	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2017	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2085	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2018	1-216-295-91	THO THIN	0			Dange	1 010 007 11	MINTAL CHIED	0.017	F0/	1 /1 OU
R2020	1-216-853-11	METAL CHIP	470K	50/	1/10W	R2086	1-216-837-11		22K	5%	1/10W
R2023	1-216-853-11	METAL CHIP	470K		1/10W	R2087	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2026	1-216-853-11	METAL CHIP	470K			R2088	1-216-041-00	RES-CHIP	470	5%	1/10W
					1/10W	R2089	1-216-041-00	RES-CHIP	470	5%	1/10W
R2029	1-216-853-11	METAL CHIP	470K	3%	1/10W	R2092	1-216-039-00	RES-CHIP	390	5%	1/10W
R2032	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2093	1-216-039-00	RES-CHIP	390	5%	1/10W
R2035	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2094	1-216-039-00	RES-CHIP	390	5%	1/10W
R2038	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2095	1-216-039-00	RES-CHIP	390	5%	1/10W
R2041	1-216-853-11	METAL CHIP	470K	5%	1/10W	R2096	1-216-039-00	RES-CHIP	390	5%	1/10W
R2042	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2097	1-216-039-00	RES-CHIP	390	5%	1/10W
P00.40		AMBRIA GALLE									
R2043	1-216-829-11	METAL CHIP	4.7K		1/10W	R2098	1-216-049-11		1K	5%	1/10W
R2044	1-216-853-11	METAL CHIP	470K		1/10W	R2099	1-216-049-11		1K	5%	1/10W
R2047	1-216-853-11	METAL CHIP	470K		1/10W	R2500	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2048		METAL CHIP		5%	1/10W	R2501	1-216-341-11	METAL OXIDE	0.22	5%	1W
R2050	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2502				0.5%	
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2503	1 200 010 11	METAI CUID	1 E V	U EU/	1 /10W
R2051		METAL CHIP		5%	1/10W					0.5%	
R2052		SHORT CHIP	0	J/0	1/ 101/	R2504	1-216-049-11		1K	5%	1/10W
R2054		RES-CHIP		50/	1/10W	R2507	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2055				5% 5%		R2509			1K	5%	1/4W
VZUJJ	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2511	1-216-073-91	RES-CHIP	10K	5%	1/10W



DEE NO	DARTNO	DECODINE			DEMARK.	DEE NO	DARTNO	DECODIFICAL			DEMARK.
REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R2516	1-216-081-00	RES-CHIP	22K	5%	1/10W	R3219	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R3220	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2518	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3221	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2519	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3222	1-216-837-11	METAL CHIP	22K	5%	1/10W
				5%		R3223		METAL CHIP	22K	5%	1/10W
R2520	1-216-025-11	RES-CHIP	100	3%	1/10W	K3223	1-216-837-11	METAL CHIP	ZZN	3%	1/10W
R2524	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3225	1-216-025-11	RES-CHIP	100	5%	1/10W
								RES-CHIP			1/10W
R2525	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R3226	1-216-025-11		100	5%	
R2912	1-216-295-91	SHORT CHIP	0			R3229	1-216-025-11	RES-CHIP	100	5%	1/10W
R2914	1-216-853-11	METAL CHIP	470K	5%	1/10W	R3233	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R2921	1-216-295-91	SHORT CHIP	0			R3234	1-216-821-11	METAL CHIP	1 K	5%	1/10W
D2024	1 210 205 01	CHODT CHID	0			Dagge	1 216 022 11	METAL CULD	1 21/	E0/	1 /1 OW
R2924	1-216-295-91	SHORT CHIP	0			R3235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2927	1-216-295-91	SHORT CHIP	0			R3236	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2930	1-216-295-91	SHORT CHIP	0			R3237	1-216-797-11	METAL CHIP	10	5%	1/10W
R2933	1-216-295-91	SHORT CHIP	0			R3238	1-216-797-11	METAL CHIP	10	5%	1/10W
R2936	1-216-295-91	SHORT CHIP	0			R3305	1-216-025-11	RES-CHIP	100	5%	1/10W
B		OMODE ONLD				Door		DDO OUTD	100	50 /	4.000
R2939	1-216-295-91	SHORT CHIP	0			R3306	1-216-025-11	RES-CHIP	100	5%	1/10W
R2942	1-216-295-91	SHORT CHIP	0			R3312	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2945	1-216-295-91	SHORT CHIP	0			R3313	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3000	1-216-025-11	RES-CHIP	100	5%	1/10W	R3314	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3001	1-216-022-00	RES-CHIP	75	5%	1/10W	R3318	1-216-025-11	RES-CHIP	100	5%	1/10W
R3009	1-216-025-11	RES-CHIP	100	5%	1/10W	R3319	1-216-025-11	RES-CHIP	100	5%	1/10W
R3010	1-216-022-00	RES-CHIP	75	5%	1/10W	R3320	1-216-025-11	RES-CHIP	100	5%	1/10W
R3011	1-216-025-11	RES-CHIP	100	5%	1/10W	R3403	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R3011	1-216-023-11	RES-CHIP	75	5%	1/10W	R3500	1-216-834-11	METAL CHIP	12K	5%	1/10W
R3013	1-216-025-11	RES-CHIP	100	5%	1/10W	R3501	1-216-834-11	METAL CHIP	12K	5%	1/10W
R3014	1-216-022-00	RES-CHIP	75	5%	1/10W	R3504	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3015	1-216-022-00	RES-CHIP	75	5%	1/10W	R3505	1-216-825-11	METAL CHIP	2.2K		1/10W
				5%	1/10W	R3603	1-216-295-91	SHORT CHIP	0	370	1/1011
R3016	1-216-025-11	RES-CHIP	100		C. (C. 1000)					0 50/	1 /1 011
R3017	1-216-022-00	RES-CHIP	75	5%	1/10W	R5102	1-208-814-91	METAL CHIP	22K		1/10W
R3018	1-216-025-11	RES-CHIP	100	5%	1/10W	R5103	1-218-833-11	METAL CHIP	270	0.5%	1/10W
R3019	1-216-022-00	RES-CHIP	75	5%	1/10W	R5107	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R3019	1-216-025-11	RES-CHIP	100		1/10W	R5107	1-208-814-91	METAL CHIP	22K		1/10W
				5%							
R3021	1-216-022-00	RES-CHIP	75	5%	1/10W	R5112	1-218-875-11	METAL CHIP	15K		1/10W
R3022	1-216-025-11	RES-CHIP	100	5%	1/10W	R5118	1-249-411-11	CARBON	330	5%	1/4W
R3023	1-216-022-00	RES-CHIP	75	5%	1/10W	R5119	1-216-844-11	METAL CHIP	82K	5%	1/10W
R3024	1-216-025-11	RES-CHIP	100	5%	1/10W	R5122	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R3025	1-216-022-00	RES-CHIP	75	5%	1/10W	R5125	1-216-836-11	METAL CHIP	18K	5%	1/10W
R3026	1-216-022-00	RES-CHIP	75	5%	1/10W	R5126	1-249-406-11	CARBON	120	5%	1/4W
R3027	1-216-025-11	RES-CHIP	100	5%	1/10W	R5127	1-216-025-11	RES-CHIP	100	5%	1/10W
R3028	1-216-022-00	RES-CHIP	75	5%	1/10W	R5128	1-216-809-11	METAL CHIP	100	5%	1/10W
Danan	1 210 045 00	DEC CITE	000	ΓO/	1 /1011	DC120	1 210 200 11	METAL CHID	1.00	T0/	1 /1 OW
R3029	1-216-045-00	RES-CHIP	680	5%	1/10W	R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R3030	1-216-022-00	RES-CHIP	75	5%	1/10W	R5130	1-216-809-11	METAL CHIP	100	5%	1/10W
R3031	1-216-022-00	RES-CHIP	75	5%	1/10W	R5131	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R3032	1-216-022-00	RES-CHIP	75	5%	1/10W	R5132	1-216-809-11	METAL CHIP	100	5%	1/10W
R3033	1-216-025-11	RES-CHIP	100	5%	1/10W	R5133	1-216-809-11	METAL CHIP	100	5%	1/10W
D0004	1 010 000 00	DDC OUTD	7.5	F0/	1 /1 OU	DC107	1 010 000 11	METAL CULD	100	F0/	1 /1 OW
R3034	1-216-022-00	RES-CHIP	75	5%	1/10W	R5137	1-216-809-11	METAL CHIP	100	5%	1/10W
R3035	1-216-025-11	RES-CHIP	100	5%	1/10W	R5138	1-216-809-11	METAL CHIP	100	5%	1/10W
R3036	1-216-022-00	RES-CHIP	75	5%	1/10W	R5139	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R3037	1-216-045-00	RES-CHIP	680	5%	1/10W	R5140	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R3218	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5146	1-216-025-11	RES-CHIP	100	5%	1/10W
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REF.NO.	PART.NO	DESCRIPTIO	N		REMARK	REF.NO.	PART.NO	DESCRIPTION	I		REMARK
R5148				ΓD/						0 50/	
	1-216-809-11	METAL CHIP	100	5%	1/10W	R5345	1-208-832-11	METAL CHIP	120K		
R5149	1-218-833-11	METAL CHIP	270		1/10W	R5346	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5150	1-249-414-11	CARBON	560	5%	1/4W	R5347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5151	1-249-454-11	CARBON	3.9	5%	1/4W	R5349	1-216-043-91	RES-CHIP	560	5%	1/10W
R5152	1-249-413-11	CARBON	470	5%	1/4W	R5350	1-216-041-00	RES-CHIP	470	5%	1/10W
							1 210 011 00	100 0111	110	070	17 1011
R5153	1-249-393-11	CARBON	10	5%	1/4W	R5351	1-216-809-11	METAL CHIP	100	5%	1/10W
R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5155	1-249-421-11	CARBON	2.2K		1/4W	R5400					
							1-216-849-11	METAL CHIP	220K	5%	1/10W
R5156	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5401	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5157	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5402	1-216-081-00	RES-CHIP	22K	5%	1/10W
DESOO	1 000 000 11	METAL CHIED	107/	0 50/	4 /4 0111	D5 400	4 040 000 44	LIPPOLT CITED			
R5300	1-208-806-11	METAL CHIP	10K		1/10W	R5403	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5301	1-216-829-11	METAL CHIP	4.7K		1/10W	R5404	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5302	1-208-806-11	METAL CHIP	10K		1/10W	R5405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5303	1-216-685-11	METAL CHIP	27K	0.5%	1/10W	R5407	1-216-857-11	METAL CHIP	1 M	5%	1/10W
R5304	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R5408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5305	1-208-852-11	METAL CHIP	820K	0.5%	1/10W	R5409	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R5306	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W	R5410	1-208-798-11	METAL CHIP			1/10W
R5307	1-216-041-00	RES-CHIP	470	5%	1/10W	R5411	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5308	1-216-295-91	SHORT CHIP	0	070	17 1011	R5413	1-208-802-11	METAL CHIP	6.8K		
R5309				0 50/	1 /1 OW						1/10W
K3509	1-208-824-11	METAL CHIP	56K	U.3%	1/10W	R5414	1-249-383-11	CARBON	1.5	5%	1/4W
R5310	1-208-830-11	METAL CHIP	100K	0 504	1/10W	R5415	1-249-389-11	CARBON	17	E0/	1 /4₩
R5310									4.7	5%	1/4W
	1-216-045-00	RES-CHIP	680	5%	1/10W	R5416	1-215-888-00	METAL OXIDE	220	5%	2W
R5312	1-208-832-11	METAL CHIP	120K		1/10W	R5417	1-208-798-11	METAL CHIP	4.7K		1/10W
R5314	1-208-840-11	METAL CHIP	270K		1/10W	R5420	1-214-798-21	METAL	1.8	1%	1/2W
R5315	1-216-043-91	RES-CHIP	560	5%	1/10W	R5421	1-214-798-21	METAL	1.8	1%	1/2W
Droto		DEC CHEE									
R5316	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5804	1-216-049-11	RES-CHIP	1 K	5%	1/10W
R5317	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5805	1-216-049-11	RES-CHIP	1 K	5%	1/10W
R5318	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R5806	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5319	1-208-840-11	METAL CHIP	270K	0.5%	1/10W	R5807	1-216-049-11	RES-CHIP	1 K	5%	1/10W
R5320	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5808	1-216-049-11	RES-CHIP	1K	5%	1/10W
						***************************************	1 210 010 11	THE OHIL	111	070	17 1011
R5321	1-216-837-11	METAL CHIP	22K	5%	1/10W	R5809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5322	1-216-820-11	METAL CHIP	820	5%	1/10W	R5865	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5324	1-208-810-11	METAL CHIP	15K	0.5%		R5869	1-216-817-11	METAL CHIP	470		1/10W
R5325	1-208-812-11	METAL CHIP	18K	0.5%		R5871	1-216-850-11	METAL CHIP			
R5326	1-216-845-11	METAL CHIP	100K							5%	1/10W
1/3320	1-210-045-11	METAL CHIT	1001	370	1/10W	R5872	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5327	1-216-472-00	METAL OXIDE	39	5%	3W	R5873	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5328	1-216-033-00	RES-CHIP	220		1/10W	R5875	1-216-825-11	METAL CHIP		5%	1/10W
R5331	1-216-033-00	RES-CHIP	220	5%	1/10W						
						R5877	1-216-821-11	METAL CHIP	1 K	5%	1/10W
R5332	1-208-806-11	METAL CHIP	10K	0.5%	L. CHARLES	R5878	1-216-049-11	RES-CHIP	1 K		1/10W
R5333	1-208-820-11	METAL CHIP	39K	0.5%	1/10W	R5879	1-216-809-11	METAL CHIP	100	5%	1/10W
DE331	1 200 02/ 11	METAL CULD	1 E O V	0 50/	1 /10W	DEOOO	1 210 000 11	METAL CULD	100	F0/	1 /1011
R5334	1-208-834-11	METAL CHIP		0.5%		R5880	1-216-809-11	METAL CHIP	100		1/10W
R5335	1-208-818-11	METAL CHIP		0.5%	I	R5881	1-216-833-11	METAL CHIP	10K		1/10W
R5336	1-216-057-00	RES-CHIP	2.2K		1/10W	R5882	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5337	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R5884	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5338	1-249-413-11	CARBON	470	5%	1/4W	R5885	1-216-809-11	METAL CHIP	100		1/10W
R5340		RES-CHIP	1K		1/10W	R5887	1-216-809-11	METAL CHIP	100		1/10W
R5341	1-216-089-91	RES-CHIP	47K		1/10W	R5888	1-216-809-11	METAL CHIP	100	5%	1/10W
R5342	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	R5889	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5343	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	R5892	1-216-833-11	METAL CHIP	10K		1/10W
R5344		METAL CHIP	39K	0.5%		R5895		METAL CHIP	10K		1/10W
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REF.NO.	PART.NO	DESCRIPTION	l		REMARK	REF.NO.	PART.NO	DESCRIPTION	V	REN	MARK
R5898	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	X3200	1-781-946-21	VI BRATOR, CR	IATZV		
R5899	1-216-863-11	METAL CHIP	3.3M		1/10W	X5800		VI BRATOR, CE			
R6200	1-218-831-11	METAL CHIP	220		1/10W	A3000	1-101-121-11	VIDIVITOR, CL	AVIIIIO		
R6201	1-218-839-11	METAL CHIP	470		1/10W	A Boar	d, Variant Pa	rts (KV-32F	070B)		
		CARBON		5%	1/4W	A Doal	u, variant r a	113 (117-52)	arob)		
R6202	1-249-395-11	CARDUN	15	370	1/4W		< TUNER >	,			
R7007	1-216-049-11	RES-CHIP	1K	5%	1/10W	WII. 0.00	0 500 505 00	TO OHER DATE	DD 444		
R7018	1-216-025-11	RES-CHIP	100	5%	1/10W	TU1000	8-598-535-20	FRONTEND BTF	-EF411		
R7023	1-216-834-11	METAL CHIP	12K	5%	1/10W						016
R7034	1-216-025-11	RES-CHIP	100	5%	1/10W	A Board	d, Variant Par	ts (KV-32FG	1/UE / KV-	32FQ/	UK)
R7035	1-216-025-11	RES-CHIP	100	5%	1/10W		< TUNER >				
R7048	1-216-025-11	RES-CHIP	100	5%	1/10W		TONDA				
R7050	1-216-833-11	METAL CHIP	10K	5%	1/10W	TU1000	8-598-533-10	FRONTEND BTF	-EC411		
R7051	1-216-025-11	RES-CHIP	100	5%	1/10W						
R7052	1-216-025-11	RES-CHIP	100	5%	1/10W	A Board	d, Variant Par	ts (KV-32FC	70U)		
R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W						
11.000							< TUNER >				
R7054	1-216-847-11	METAL CHIP	150K		1/10W	TU1000	8-598-529-10	FRONTEND BTF	EUG11		
R7056	1-218-867-11	METAL CHIP	6.8K		1/10W	101000	8-398-329-10	FRONTEND BIF	-E0011		
R7057	1-216-842-11	METAL CHIP	56K	5%	1/10W	* A-130	2-133-A C B	loard Comr	alete		4 3 4 4
R7058	1-216-049-11	RES-CHIP	1K	5%	1/10W	A-100	2-100-A C D	oard, comp	лете		
R7065	1-216-821-11	METAL CHIP	1K	5%	1/10W		4-382-854-01	SCREW (M3X8)	, P, SW (+)		
R7066	1-216-809-11	METAL CHIP	100	5%	1/10W		< CAPACIT	nd -			
R7068	1-218-877-11	METAL CHIP	18K	0.5%	1/10W		< CALACII	UK >			
R7070	1-216-817-11	METAL CHIP	470	5%	1/10W	C7303	1-162-909-11	CERAMIC CHIP	4DE	0.25PF	EUM
R7071	1-216-817-11	METAL CHIP	470	5%	1/10W	C7303	1-102-909-11	ELECT		20.00%	
R7072	1-216-817-11	METAL CHIP	470	5%	1/10W	C7304		MYLAR	1UF 0.047UF	5.00%	
						C7305	1-136-207-11 1-115-416-11	CERAMIC CHIP		5.00%	
R7073	1-216-041-00	RES-CHIP	470	5%	1/10W	C7308	1-113-410-11	CERAMIC CHIP		0.25PF	
R7074	1-216-043-91	RES-CHIP	560	5%	1/10W	U/300	1-102-909-11	CERAMIC CHIP	411	U.ZJFF	301
R7075	1-216-817-11	METAL CHIP	470	5%	1/10W	07200	1 104 156 11	CEDANTC CITTO	0.1100		DEM
R7076	1-216-041-00	RES-CHIP	470	5%	1/10W	C7309 C7310	1-164-156-11 1-162-923-11	CERAMIC CHIP CERAMIC CHIP		5.00%	25V
R7077	1-216-043-91	RES-CHIP	560	5%	1/10W		1-102-923-11	CERAMIC CHIP			
						C7325 C7326				0.25PF	
R7078	1-216-817-11	METAL CHIP	470	5%	1/10W		1-115-416-11			5.00%	
R7079	1-216-041-00	RES-CHIP	470	5%	1/10W	C7329	1-107-967-11	ELECT	1UF	20.00%	400 V
R7080	1-216-043-91	RES-CHIP	560	5%	1/10W	07220	1 126 207 11	MYLAR	0.047UF	5.00%	62011
R7081	1-216-817-11	METAL CHIP	470	5%	1/10W	C7330 C7331	1-136-207-11 1-162-909-11	CERAMIC CHIP		0.25PF	
R7082	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	C7333		CERAMIC CHIP		U.ZJFF	25V
							1-164-156-11			5.00%	
R7088	1-208-783-11	METAL CHIP			1/10W	C7334 C7350	1-162-923-11	CERAMIC CHIP ELECT		20.00%	
R7089	1-216-819-11	METAL CHIP	680	5%	1/10W	01330	1-128-551-11	EFECT	22UF	4U.UU%	UJV
R7090	1-216-819-11	METAL CHIP	680	5%	1/10W	C7251	1 162 000 11	CERAMIC CHIP	4DE	0.25PF	EOV
R7091	1-216-819-11	METAL CHIP	680	5%	1/10W	C7351	1-162-909-11	CERAMIC CHIP			
R7092	1-216-295-91	SHORT CHIP	0			C7352	1-115-416-11			5.00%	
						C7354	1-126-947-11	ELECT	47UF	20.00%	
R7093	1-216-295-91	SHORT CHIP	0			C7355	1-107-967-11	ELECT	1UF	20.00%	
R7094	1-216-295-91	SHORT CHIP	0			C7356	1-136-207-11	MYLAR	0.047UF	5.00%	USUV
R7095	1-216-295-91	SHORT CHIP	0			(7250	1 162 000 11	CEDANTO CIITO	4DE	ט טנווי	EOV
R7096	1-216-803-11	METAL CHIP	33	5%	1/10W	C7358	1-162-909-11	CERAMIC CHIP		0.25PF	
R7097	1-216-803-11	METAL CHIP	33	5%	1/10W	C7359	1-164-156-11	CERAMIC CHIP		E 000/	25V
						C7360	1-162-923-11	CERAMIC CHIP		5.00%	
R7098	1-216-803-11	METAL CHIP	33	5%	1/10W	C7378	1-162-116-00	CERAMIC	680PF	10.00%	
	ODITOR : T					C7379	1-115-350-51	CERAMIC	0.0047UF		2KV
	< CRYSTAL	>				C7380	1-107-662-11	ELECT	22UF	20.00%	350V
X2000	1_760_620_11	VIBRATOR, CRY	TATZY			C7384	1-162-911-11	CERAMIC CHIP		0.50PF	
ALUUU	1-100-020-11	*IDIVATUA, UKI	OIML		ļ						



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	N	REMARK
C7385	1-162-913-11	CERAMIC CHIP 8PF	0.50PF 50V	R7325	1-249-417-11	CARBON	1K	5% 1/4W
C7387	1-162-911-11	CERAMIC CHIP 6PF	0.50PF 50V	R7328	1-216-824-11	METAL CHIP	1.8K	5% 1/10W
C7388	1-162-913-11	CERAMIC CHIP 8PF	0.50PF 50V	R7329	1-260-095-11	CARBON		5% 1/2W
C7390	1-162-911-11	CERAMIC CHIP 6PF	0.50PF 50V	R7330	1-215-903-11			5% 2W
C7391	1-162-913-11	CERAMIC CHIP 8PF	0.50PF 50V	R7334	1-216-819-11			5% 1/10W
	< CONNECT	TOR >		R7335	1-216-824-11	METAL CHIP	1.8K	5% 1/10W
	Ostaliza			R7350	1-249-417-11	CARBON		5% 1/4W
CN7300	* 1-564-508-11	PLUG, CONNECTOR 5P		R7356	1-216-824-11	METAL CHIP		5% 1/10W
CN7301	* 1-564-512-11	PLUG, CONNECTOR 9P		R7357	1-210-624-11	CARBON		
CN7301	1-695-915-11	TAB (CONTACT)						5% 1/2W
CN7311 CN7333	1-695-915-11	TAB (CONTACT)		R7358	1-215-903-11	METAL OXIDE	68K	5% 2W
		,		R7363	1-216-819-11	METAL CHIP		5% 1/10W
	< DIODE >			R7364	1-216-824-11	METAL CHIP	1.8K	5% 1/10W
				R7373	1-216-823-11	METAL CHIP	1.5K	5% 1/10W
07300	8-719-911-19	DIODE 1SS119-25		R7374	1-216-819-11	METAL CHIP	680	5% 1/10W
07325	8-719-911-19	DIODE 1SS119-25		R7375	1-216-839-11	METAL CHIP	33K	5% 1/10W
07350	8-719-911-19	DIODE 1SS119-25					0011	1/ 1011
7375	8-719-991-33	DIODE 1SS133T-77		R7376	1-216-833-11	METAL CHIP	10K	5% 1/10W
7376	8-719-991-33	DIODE 1SS133T-77		R7377	1-216-834-11	METAL CHIP		5% 1/10W
01010	0-113-331-33	DIODE 1991991-11						
7270	0 710 100 00	DIODE DDC CECDO		R7379	1-216-833-11	METAL CHIP		5% 1/10W
)7378	8-719-109-89	DIODE RD5.6ESB2		R7380	1-216-833-11	METAL CHIP		5% 1/10W
07379	8-719-109-89	DIODE RD5.6ESB2		R7381	1-216-833-11	METAL CHIP	10K	5% 1/10W
	< IC >			R7382	1-202-549-00	SOLID	100	20% 1/2W
				R7383	1-216-349-00	METAL OXIDE		5% 1W
[C7300	8-759-360-83	IC TDA6111Q/N4		R7385	1-202-549-00	SOLID		20% 1/2W
[C7325		IC TDA6111Q/N4		R7387	1-247-735-11	CARBON		5% 1/2W
[C7350		IC TDA6111Q/N4		R7389	1-247-881-00	CARBON		5% 1/4W
	< SOCKET :	>		R7390	1-249-417-11	CARBON	1 K	5% 1/4W
	500181			R7391	1-216-824-11	METAL CHIP		5% 1/10W
7276 £	* 1-451-544-11	COCVET CDT		R7391				
11310 T	1-431-344-11	SUCREI, UNI			1-216-819-11	METAL CHIP		5% 1/10W
	COLL			R7393	1-216-823-11	METAL CHIP	1.5K	
	< COIL >			R7394	1-249-417-11	CARBON	1K	5% 1/4W
.7375	1-414-928-21	INDUCTOR 1UH		R7395	1-216-824-11	METAL CHIP	1.8K	5% 1/10W
7376 £	1-532-637-00	IC LINK 1A		R7396	1-216-819-11	METAL CHIP		5% 1/10W
7378		INDUCTOR 1UH		R7397	1-216-823-11	METAL CHIP	1.5K	
		1011		R7398	1-249-417-11	CARBON		5% 1/4W
	< TRANSIST	ror >		R7399	1-216-824-11	METAL CHIP	1.8K	
7350	8-729-901-06	TRANSISTOR DTA144EK			DECTOTO	UADTADIT		
7352		TRANSISTOR UN2213			< KES151U	R VARIABLE >		
7353		TRANSISTOR UN2213		RV7375	1-241-656-21	RES, ADJ, MET	CAL FILM	110M
7354		TRANSISTOR DTA144EK		* 4 120	2-134-A F1	Doord Oom		
7355	8-729-421-19	TRANSISTOR UN2213		A-130	2-134-A FI	Board, Com	piete	
	< RESISTOR	>			4-206-220-01	HOLDER, LED	mon our	a man
R7301	1-216-864-11	SHORT CHIP 0			* 4-374-846-01	COVER, CAPACI	TOR, CAI	? TYPE
001					< CAPACIT	OR >		
7300		CARBON 1K 59						
7303	1-216-824-11	METAL CHIP 1.8K 59	6 1/10W	C0982	1-104-665-11	ELECT	100UF	20.00% 25V
7304	1-260-095-11	CARBON 470 59	6 1/2W	C0983	1-102-114-00	CERAMIC	470PF	10.00% 50V
7305		METAL OXIDE 68K 59		C0984	1-102-129-00		0.01UF	10.00% 50V
7309		METAL CHIP 1.8K 59		C6400	1-113-924-11		0.0047UI	
	051 11	1.011					. 50 11 01	
7310	1-216-819-11	METAL CHIP 680 59	6 1/10W					



REF.NO. PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK
< CONNEC	TOR >			< RESISTO	OR >		
CN0981 * 1-564-507-11	PLUG, CONNECTOR 4P		JR0901	1-216-864-11	SHORT CHIP	0	
CN6400 £ * 1-580-843-11	PIN, CONNECTOR (POWER)		JR2901	1-216-864-11	SHORT CHIP	0	
CN6401 £ * 1-691-291-11	PIN, CONNECTOR (PC BOAF	RD) 5P	JR2902	1-216-864-11	SHORT CHIP	0	
CN6403 1-695-915-11	TAB (CONTACT)		R0901	1-218-867-11	METAL CHIP	6 8K 0	5% 1/10W
< DIODE :	>		R0902	1-216-864-11	SHORT CHIP	0	070 17 1011
			R0911	1-216-833-11	METAL CHIP	10K 5%	
00981 8-719-109-89			R0912	1-216-835-11	METAL CHIP	15K 5%	
00983 8-719-082-12	DIODE TLHK5190		R0913	1-216-827-11	METAL CHIP	3.3K 5%	6 1/10W
< FUSE >			R0914	1-216-823-11	METAL CHIP	1.5K 5%	
20400 C 1 E7C 222 11	PUCE (II D C) EA/DEON		R2901	1-249-406-11	CARBON	120 5%	
£ 1-533-725-11	FUSE (H.B.C.) 5A/250V FUSE HOLDER (F6400)		R2902 R2903	1-249-406-11 1-249-406-11	CARBON CARBON	120 5% 120 5%	
1 1 000 120 11	TOSE HOLDER (TO-100)		R2904	1-249-406-11		120 5%	
< IC >			Pooco	1 010 050 11	MDM11 OHTD	45011 50	4 (4 0)))
C0981 6-600-129-01	IC RPM7140-H5		R2909 R2910	1-216-853-11 1-216-853-11	METAL CHIP METAL CHIP	470K 5% 470K 5%	
0-000-123-01	10 MM140-113		R2917	1-216-821-11		1K 5%	
< RESISTO	OR >		R2918	1-216-821-11	METAL CHIP	1K 5%	1/10W
0982 1-247-807-31	CARBON 100 5%	1/4W		< SWITCH	_		
6400 £ 1-202-719-00				< 5W110II			
			S0900	1-692-431-21			
< SWITCH	>		S0901	1-692-431-21	SWITCH, TACTI		
5400 f 1-571-433-21	SWITCH, PUSH (AC POWER)		S0902 S0903		SWITCH, TACTI SWITCH, TACTI		
V.V.V. 2 1 0.1 100 21	01121011, 2001 (200 201121)		S0904	1-692-431-21	SWITCH, TACTI		
< VARISTO	DR >		COOOL	1 (00 401 01	CUITCII TACTI	TE	
DR6400 £ 1-803-830-11	VARISTOR (ERZV14D621)		S0905		SWITCH, TACTI		
* A-1302-135-A H1	Board, Complete		* A-140	04-964-A M2	Board, Com	plete	
	-			1-540-151-21	SOCKET, IC		
< CAPACIT	UK >			< CAPACIT	OR >		
2904 1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V					
2906 1-126-960-11	ELECT 1UF	20.00% 50V	C0001		CERAMIC CHIP		10.00% 16V
2907 1-126-960-11 2931 1-162-964-11	ELECT 1UF CERAMIC CHIP 0.001UF	20.00% 50V 10.00% 50V	C0002 C0004	1-107-826-11 1-164-360-11	CERAMIC CHIP		10.00% 16V 16V
1 102 001 11	CERTIFIC CHIL C. COLOR	10.00% 001	C0006	1-126-934-11		220UF	20.00% 16V
< CONNECT	IOR >		C0007	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V
N2900 1-779-947-11	TERMINAL BLOCK, S		C0008	1-107-826-11	CERAMIC CHIP	0 1IF	10.00% 16V
	PLUG, CONNECTOR 9P		C0009	1-165-128-11			16V
N2910 * 1-564-509-11	PLUG, CONNECTOR 6P		C0010	1-162-927-11			5.00% 50V
, DIODE .			C0012	1-162-924-11			5.00% 50V
< DIODE >	ħ		C0013	1-164-360-11	CERAMIC CHIP	U.IUr	16V
0908 8-719-923-60	DIODE MTZJ-T-77-9.1A		C0015	1-135-834-91			
			C0016	1-165-128-11			16V
	>		C0017 C0019	1-162-924-11 1-164-360-11			5.00% 50V 16V
< SOCKET				1 1/17 /////	OPINITO OIIII	U. IUI	101
< SOCKET			C0020	1-162-923-11	CERAMIC CHIP	47PF	5.00% 50V
< SOCKET			C0020	1-162-923-11			
< SOCKET				1-162-923-11 1-107-826-11		0.1UF	5.00% 50V 10.00% 16V 5.00% 25V



REF.NO.	PART.NO	DESCRIPTION	REI	MARK	REF.NO.	PART.NO	DESCRIPTION	ON		REMARK
C0024	1-115-416-11	CERAMIC CHIP 0.0	01UF 5.00%	25V	FB0031	1-414-760-21	FERRITE	OUH		
C0025	1-162-962-11	CERAMIC CHIP 470			FB0032	1-414-760-21	FERRITE	OUH		
C0026	1-162-962-11	CERAMIC CHIP 470			1 100032	1-414-700-21	LEWILL	UUI		
C0020	1-162-962-11					TO				
		CERAMIC CHIP 4701				<][>				
C0028	1-126-934-11	ELECT 2201	JF 20.00%	6 16V	T.0000					
00000	4 404 000 44	OPPLICACIONE O LA			IC0001	8-759-699-33	IC M24C16-N			
C0029	1-164-360-11	CERAMIC CHIP 0.10		16V	IC0002	6-702-515-01	IC SAA5665H	L/M1D/0	724	
C0030	1-164-360-11	CERAMIC CHIP 0.10	JF	16V	IC0003	8-759-672-39	IC PST573IM	T		
C0031	1-164-360-11	CERAMIC CHIP 0.10	JF	16V	IC0004	8-759-665-11	IC LM393DT			
C0032	1-164-360-11	CERAMIC CHIP 0.10	JF	16V	IC0005	6-702-395-01	IC K6F2008V	2E-YF70	Т	
C0034	1-115-416-11	CERAMIC CHIP 0.00				0 102 000 01	10 101 2000 (20 1170		
					IC0006	6-704-221-01	IC M27W201-	SUKE-EU	100	
C0035	1-115-416-11	CERAMIC CHIP 0.00	1UF 5.00%	25V	IC0007	8-759-271-86	IC TC7SH04F		100	
C0036	1-115-416-11	CERAMIC CHIP 0.00			IC0008	8-759-392-01	IC TC7SH86F			
C0037	1-115-416-11	CERAMIC CHIP 0.00			1					
C0037					IC0010	8-759-523-81	IC TC74VHC0	8F1 (EL)		
	1-115-416-11	CERAMIC CHIP 0.00								
C0039	1-107-826-11	CERAMIC CHIP 0.1U	F 10.00%	16V		< TRANSIS	STOR >			
C0042	1-115-416-11	CERAMIC CHIP 0.00	1UF 5.00%	25V	Q0002	8-729-424-08	TRANSISTOR	IIN2111		
C0047	1-115-416-11	CERAMIC CHIP 0.00			Q0003	8-729-424-08	TRANSISTOR			
		0.00	0.0070	501	Q0006	8-729-010-29	TRANSISTOR		OCT1	
	< CONNECT	'OD ~								0
	< CONTACT	OK >			Q0007	8-729-027-44	TRANSISTOR			
ON0001	* 1 700 407 11	CONTROTOR DOLDR	TO DOLDD 10D		Q0008	8-729-027-44	TRANSISTOR	DIC11411	(A-1146	Ö
CN0001	* 1-793-497-11	CONNECTOR, BOARD			4					
CN0003	1-817-040-81	PLUG, CONNECTOR 3	P		Q0009	8-729-027-44	TRANSISTOR			
					Q0010	8-729-027-44	TRANSISTOR	DTC114TH	(A-T146	õ
	< DIODE >				Q0011	8-729-010-29	TRANSISTOR 1	MSD601-I	RST1	
					Q0012	8-729-424-08	TRANSISTOR	JN2111		
D0001	6-500-079-01	DIODE BAS40-05E63	27		Q0013	8-729-421-22	TRANSISTOR 1			
D0201	8-719-069-55	DIODE UDZSTE-175.			40020	0 100 101 00	1101010101	0112211		
D0202	8-719-069-55	DIODE UDZSTE-175.				< RESISTO	P ~			
D0203	8-719-069-55	DIODE UDZSTE-175.				< M21010	IX >			
D0203	8-719-069-55	DIODE UDZSTE-175.			D0001	1 010 010 11	MINTAL CUIT D	000	F0/	4 /4 OIII
DUZU4	0-119-009-33	DIONE ONTSIE-113.)D		R0001	1-216-819-11	METAL CHIP	680	5%	1/10W
D0001	0.510.000.50	DIODE INCOME 450	. n		R0002	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
D0301	8-719-069-56	DIODE UDZSTE-176.2	Z.B		R0003	1-216-809-11	METAL CHIP	100	5%	1/10W
					R0004	1-216-813-11	METAL CHIP	220	5%	1/10W
	< FERRITE	BEAD >			R0011	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0003	1-216-864-11	SHORT CHIP 0			R0014	1-216-837-11	METAL CHIP	22K	5%	1/10W
FB0004	1-216-864-11	SHORT CHIP 0			R0016	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0005	1-216-295-91	SHORT CHIP 0			R0017	1-216-843-11	METAL CHIP	68K	5%	1/10W
FB0006	1-412-006-31	INDUCTOR 100	ТН		R0018	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0007	1-412-006-31	INDUCTOR 101			R0019	1-216-833-11	METAL CHIP	10K	5%	1/10W
EDOOOO	1 210 205 01	CHODAL CHAD								
FB0008	1-216-295-91	SHORT CHIP 0			R0020	1-216-821-11	METAL CHIP	1 K	5%	1/10W
FB0009	1-412-006-31	INDUCTOR 10U	JH		R0022	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0010	1-216-295-91	SHORT CHIP 0			R0023	1-216-845-11	METAL CHIP	100K	5%	1/10W
FB0011	1-216-295-91	SHORT CHIP 0			R0027	1-216-821-11	METAL CHIP	1K	5%	1/10W
FB0012	1-412-006-31	INDUCTOR 10U	TH		R0028	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB0015	1-216-295-91	SHORT CHIP 0			R0029	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0016	1-216-295-91	SHORT CHIP 0			R0030	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0017		SHORT CHIP 0			R0032	1-216-809-11	METAL CHIP	100	5%	1/10W
FB0018		SHORT CHIP 0			R0032	1-216-809-11	METAL CHIP	100		1/10W
FB0019		SHORT CHIP 0			R0034				5%	
					NUUJ4	1-218-725-11	METAL CHIP	24K	U.3%	1/10W
FB0020		SHORT CHIP 0			R0035	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
FB0021	1-216-864-11	SHORT CHIP 0			R0037	1-216-827-11	METAL CHIP	3.3K		1/10W
FB0022	1-412-006-31	INDUCTOR 10U	Н		R0039	1-216-809-11	METAL CHIP	100	5%	1/10W
				ı			- JAMA	_ 0 0	- / -	



REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R0040	1-216-809-11	METAL CHIP	100	5%	1/10W	R0118	1-216-813-11	METAL CHIP 220 5	5% 1/10W
R0041	1-216-825-11	METAL CHIP	2.2K		1/10W	R0119	1-216-813-11		5% 1/10W
R0042	1-218-867-11	METAL CHIP			1/10W	R0120	1-216-813-11		5% 1/10W
R0042	1-216-803-11	METAL CHIP	33	5%	1/10W	R0120	1-216-813-11		5% 1/10W
R0043	1-216-809-11	METAL CHIP	100	5%	1/10W	R0121			5% 1/10W
KUU44	1-210-009-11	METAL UNIT	100	370	1/10W	KU1ZZ	1-216-813-11	METAL CHIP 220 3	170 171UW
R0045	1-216-803-11	METAL CHIP	33	5%	1/10W	R0123	1-216-813-11	METAL CHIP 220 5	% 1/10W
R0046	1-216-803-11	METAL CHIP	33	5%	1/10W	R0301	1-216-833-11	METAL CHIP 10K 5	% 1/10W
R0047	1-216-810-11	METAL CHIP	120	5%	1/10W	R0302	1-216-833-11		% 1/10W
R0048	1-216-809-11	METAL CHIP	100	5%	1/10W	R0303	1-216-836-11		% 1/10W
R0049	1-216-833-11	METAL CHIP	10K	5%	1/10W	R0304	1-218-867-11		1.5% 1/10W
R0050	1-216-810-11	METAL CHIP	120	5%	1/10W		< RESISTO	OR CHIP >	
R0051	1-216-835-11	METAL CHIP	15K	5%	1/10W				
R0052	1-216-810-11	METAL CHIP	120	5%	1/10W	RB0101	1-233-411-11		,
R0053	1-216-809-11	METAL CHIP	100	5%	1/10W	RB0102	1-233-411-11	RES, CHIP NETWORK 220	(3216)
R0054	1-216-809-11	METAL CHIP	100	5%	1/10W	RB0103	1-233-411-11	RES, CHIP NETWORK 220	(3216)
						RB0104	1-233-411-11	RES, CHIP NETWORK 220	(3216)
R0055	1-216-809-11	METAL CHIP	100	5%	1/10W	RB0105	1-233-411-11	RES, CHIP NETWORK 220	(3216)
R0056	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R0057	1-216-809-11	METAL CHIP	100	5%	1/10W	RB0107	1-233-411-11	RES, CHIP NETWORK 220	(3216)
R0058	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	RB0108	1-233-411-11	RES, CHIP NETWORK 220	
R0059	1-216-841-11	METAL CHIP	47K	5%	1/10W				
							< CRYSTAL	, >	
R0060	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R0061	1-216-833-11	METAL CHIP	10K	5%	1/10W	X0001	1-578-774-71	VI BRATOR, CRYSTAL	
R0062	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R0063	1-216-833-11	METAL CHIP	10K	5%	1/10W	* A-13	300-627-A VM	Board, Complete	
R0064	1-216-833-11	METAL CHIP	10K	5%	1/10W				
							4-382-854-01	SCREW (M3X8), P, SW (+)
R0065	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R0066	1-218-871-11	METAL CHIP	10K	0.5%	1/10W		< CAPACIT	YOR >	
R0067	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R0068	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7401	1-126-935-11	ELECT 470UF	20.00% 16V
R0069	1-216-833-11	METAL CHIP	10K	5%	1/10W	C7403	1-126-935-11	ELECT 470UF	20.00% 16V
						C7404	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
R0070	1-216-809-11	METAL CHIP	100	5%	1/10W	C7405	1-126-933-11	ELECT 100UF	20.00% 16V
R0071	1-216-809-11	METAL CHIP	100	5%	1/10W	C7406	1-126-935-11	ELECT 470UF	20.00% 16V
R0072	1-216-809-11	METAL CHIP	100	5%	1/10W				
R0073	1-216-809-11	METAL CHIP	100	5%	1/10W	C7407	1-107-364-11	MYLAR 0.01UF	10.00% 200V
R0074	1-216-809-11	METAL CHIP	100	5%	1/10W	C7408	1-107-364-11	MYLAR 0.01UF	10.00% 200V
						C7409	1-107-649-11	ELECT 2.2UF	20.00% 250V
R0075	1-216-809-11	METAL CHIP	100	5%	1/10W	C7410	1-130-471-00	MYLAR 0.001UF	5.00% 50V
R0076	1-216-821-11	METAL CHIP	1K	5%	1/10W	C7411	1-130-471-00	MYLAR 0.001UF	5.00% 50V
R0078	1-216-817-11	METAL CHIP	470	5%	1/10W				
R0079	1-216-829-11	METAL CHIP	4.7K		1/10W	C7412	1-126-935-11	ELECT 470UF	20.00% 16V
R0082	1-216-864-11	SHORT CHIP	0	070	17 1017	C7413	1-126-935-11	ELECT 470UF	20.00% 16V
ROOOL	1 210 001 11	SHORT CHIT	U			C7414	1-107-652-11	ELECT 10UF	20.00% 250V
R0083	1-216-809-11	METAL CHIP	100	5%	1/10W	C7415	1-107-363-91	MYLAR 0.0068UF	
R0084		METAL CHIP			1/10W	C7413	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 200V 10.00% 50V
	1-216-809-11		100	5% 5%		01410	1-100-021-31	OPIVABILO OIIII A'AIAI,	10.00/0 JUV
R0110	1-216-813-11	METAL CHIP	220	5%	1/10W	C7421	1 160 051 11	CERAMIC CHIP 100PF	5.00% 50V
R0111	1-216-813-11	METAL CHIP	220	5%	1/10W	0/421	1-100-201-11	CENTAINTO CHIT IUUTT	J.0070 JUV
R0112	1-216-813-11	METAL CHIP	220	5%	1/10W		< CONNECT	MR >	
R0113	1-216-813-11	METAL CHIP	220	5%	1/10W		- 001VIVEC1	VII -	
R0114	1-216-813-11	METAL CHIP	220	5%	1/10W	CN7442	* 1-564-508-11	PLUG, CONNECTOR 5P	
R0114	1-216-813-11	METAL CHIP	220	5%	1/10W	CN7443	* 1-564-506-11	PLUG, CONNECTOR 3P	
R0115	1-216-813-11	METAL CHIP	220	5%	1/10W	CN7444	* 1-770-723-11		OARD 8P
R0110 R0117	1-216-813-11	METAL CHIP	220	5%	1/10W	ONITT	1 110-123-11	COMMISSION, DUMIN TO D	OUTUD OI
VOTT1	1-710-019-11	MICIAL UILI	22U	J/0	1/ 101//				



REF.NO.	PART.NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
	< DIODE	>			R7420	1-249-421-11	CARBON	2.2K	5%	1/4W
	- DIODL	3			R7421	1-249-389-11	CARBON	4.7	5%	1/4W
D7400	8-719-991-33	DIODE 1SS133T-	_77		R7422	1-249-405-11	CARBON	100	5%	1/4W
D7400	8-719-991-33				R7423	1-215-915-11	METAL OXIDE	470	5%	3W
D7401 D7402	1-535-303-00				R7427	1-216-025-11	RES-CHIP	100	5%	1/10W
D7402 D7403	8-719-991-33				M 1L1	1 210 020-11	MA OILI	100	J /U	1/ 1011
D7403	8-719-991-33				R7428	1-216-033-00	RES-CHIP	220	5%	1/10W
D1 404	0-119-991-33	DIODE 1SS133T-	-11		R7429	1-216-033-00	RES-CHIP	220	5%	1/10W 1/10W
D7405	0 710 024 11	DIODE MEGIT T	77 99		R7432	1-216-065-91	RES-CHIP	4.7K	5%	1/10W 1/10W
D7403 D7406	8-719-924-11 8-719-924-11	DIODE MTZJ-T-7			R7432	1-249-395-11	CARBON	15	5%	1/4W
DI 400	8-719-924-11	DIODE MTZJ-T-7	1-22		R7434	1-249-395-11	CARBON	15	5%	1/4W 1/4W
	PEDDIT	E DEAD			1/1404	1-245-555-11	CAINDON	13	J70	17 4W
	< FERRIT	E BEAU >			R7435	1-216-031-00	RES-CHIP	180	5%	1/10W
ED7400	1 525 202 00	LEVD HINDED	(E 0)110		R7436	1-216-031-00	RES-CHIP	160 1K	5%	1/10W 1/10W
FB7400	1-535-303-00		(5.0MM)		107430	1-210-045-11	M3-CIII	IIV	370	1/10W
FB7401	1-535-303-00	LEAD, JUMPER	(5.0MM)							
	COLI									
	< COIL >									
17400	1 414 004 04	THINIOTOR	101111							
L7400	1-414-934-21	INDUCTOR	10UH							
L7402	1-414-934-21	INDUCTOR	10UH							
L7403	1-414-934-21	INDUCTOR	10UH							
	TDANCE	omon.								
	< TRANSIS	S10K >								
07400	0 720 010 20	TDANCTOTOD MOD	CO1 DCT1							
	8-729-010-29	TRANSISTOR MSD								
Q7401	8-729-010-29	TRANSISTOR MSD								
07402	8-729-010-29	TRANSISTOR MSD								
Q7403	8-729-119-78	TRANSISTOR 2SC		0. D						
Q7404	8-729-026-49	TRANSISTOR 2SA	103/AK-1140	N-C						
07405	0 700 000 00	TRANSTETOR OCA	TO SLEED							
Q7405	8-729-026-39	TRANSISTOR 2SAS								
Q7406	8-729-045-05	TRANSISTOR 2SA								
07407	8-729-045-04	TRANSISTOR 2SC		. D						
Q7408	8-729-026-49	TRANSISTOR 2SA		i-R						
Q7409	8-729-010-29	TRANSISTOR MSD6	501-RST1							
	DECICAC	ND.								
	< RESISTO)K >								
R7400	1-216-017-91	RES-CHIP 4	47 5%	1/10W						
R7401	1-216-061-91		3.3K 5%	1/10W						
R7401	1-216-041-00		170 5%	1/10W						
R7402	1-249-393-11		10 5%	1/4W						
R7403	1-249-393-11		10 5% 170 5%	1/4W 1/4W						
PUF I/I	1-640-410-11	CALDON 2	11U J/0	1/ 4//						
R7405	1-216-065-91	RES-CHIP 4	1.7K 5%	1/10W						
R7407	1-249-411-11									
R7407 R7409	1-249-411-11			1/4W 1/10W						
R7409 R7410			150 5%							
R7410 R7411	1-216-017-91		17 5%	1/10W						
N/411	1-216-017-91	RES-CHIP 4	17 5%	1/10W						
D7/110	1 216 017 01	DEC CIII D	17 EN/	1 /10W						
R7412	1-216-017-91		17 5%	1/10W						
R7413	1-249-414-11		560 5%	1/4W						
R7414	1-249-432-11		.8K 5%	1/4W						
R7415	1-247-739-11		00 5%	1/2W						
R7416	1-249-389-11	CARBON 4	. 7 5%	1/4W						
D7 44 7	1 040 400	CIDDON	07/	. /						
R7417	1-249-432-11		8K 5%	1/4W						
R7418	1-249-414-11		60 5%	1/4W						
R7419	1-249-421-11	CARBON 2	2.2K 5%	1/4W						

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
MISCE	LLANEOUS		
	1-571-433-21 1-823-853-11 1-776-860-11 1-424-855-11 8-598-535-20	CORD, POWER (KV-32) POWER CORD, FILTER COIL, CHOKE 29MMH	FFQ70B/32FFQ70E/32FFQ70K) (UK) (KV-32FQ70U)
f	8-598-533-10 8-598-529-10 1-453-444-11 1-529-408-11 1-529-417-11	FRONTEND BTF-EU611 TRANSFORMER ASSY, I SPEAKER (4.2X24CM)	(KV-32FQ70E/32FQ70K) (KV-32FQ70U) FLYBACK (NX-6020//Z2B4)
f f f	1-451-480-22 1-419-363-11 8-453-011-11 1-424-888-11 1-251-374-33	COIL, NA ROTATION NECK ASSY, (NA299-N COIL, DEGAUSSING CAP ASSY, HIGH VOLT PICTURE TUBE (W76LI	(1) TAGE 2060X)
	1-452-094-00 1-452-032-00	,	
ACCES	SORIES AN	D PACKAGING MA	ATERIALS
		INDIVIDUAL CARTON CUSHION UPPER CUSHION LOWER	
	4-093-901-51 4-093-901-11 4-093-901-21 4-093-901-31	MANUAL, INSTRUCTION (GERMAN/TURKISH/GREE MANUAL, INSTRUCTION	K) (KV-32FQ70E) (ITALIAN) (KV-32FQ70E)
	4-093-901-71 4-093-901-61	MANUAL, INSTRUCTION (BULGARIAN/CZECH/ENG RUSSIAN/POLISH) MANUAL, INSTRUCTION	

REMOTE COMMANDER

1-477-259-13 REMOTE COMMANDER (RM-938)

REF.NO.

PART.NO

DESCRIPTION

REMARK



A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

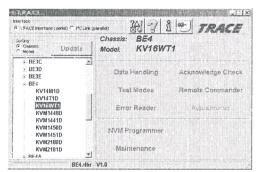
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I2C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I^2C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70

TRACE Software (for users of the I²C Link interface): 9-948-340-80 TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface